You are looking for a CAD software for clothing or shoe production? You want maximum flexibility, grading to happen automatically and everything adjusted automatically in the event that you do want to make changes? Furthermore, your developments are to be style-independent and available again and again as a modular kit?

Then, GRAFIS® is the optimum solution for your needs. This unique system is designed to be a perfect fit for both industry and the requirements of trade.

With the GRAFIS® CAD software you have an innovative software for construction of clothing/shoes and technical textiles at your fingertips.

Thus, you combine traditional operations for generating professional patterns for the clothing and shoe industry with the advantages of digital, effective and intuitive processes.

The GRAFIS® CAD licence not only contains the construction programme but also a professional layplanning programme and an import and export interface.

To ensure that all your requirements are met, GRAFIS® offers you a variety of connections to other programmes:

- **CutterControl** – for controlling single and multiple lay cutters for exact and paperless production
- **Autonester** – automatically generates the perfect layplan
- **Cut order planning** – simplifies and organises planning of layplans and cutting stacks
- **VStitcher®** – in conjunction with GRAFIS®, the quickest and most versatile way of generating 3D models
- **ProfileFitPattern Suite** – enables measuring a person using two digital photos
- **ProfileFitPattern Photo** – enables digitizing of paper patterns on-screen without a digitizer
- **Pattern on Demand®** – fully automated made-to-measure garments – from order to production

**Version 12**

**The best ever GRAFIS!**
GRAFIS® automatically creates interdependencies between pattern pieces. Alteration to the development part automatically leads to adjustment of the dependent pattern pieces. Thus, no quality-reducing differences in seam length occur, no matter how unusual the pattern. These interdependencies also offer you fast and effective creation of style variations.

You also have the advantage of being able to create your styles based on the interactive basic constructions. These can be easily adjusted interactively or via value entry and offer a large variety of possibilities for fit optimisation and style modification. New interactive constructions are constantly being developed, not only for the standard area of the clothing industry but for specialised areas such as underwear and accessories. Your style development is accessible to you at all times, even after completion. Subsequent corrections or modifications of the style development are possible via the adjustment of parameters.

The new part assistant speeds up the completion of your pattern pieces by guiding you through all important areas of generating a production pattern. Nothing will be forgotten and adding seam allowances, symbols, annotation, corner treatment and similar will only take a few seconds of your valuable time.

For data exchange with a number of other CAD systems, the import and export interfaces integrated in GRAFIS® are at your disposal, ensuring that you can work with production sites or freelancers without any problems.

Your advantages

- Automatic grading, also for individual sizes
- Parameters ensure maximum flexibility
- Interdependencies of the pattern pieces simplify style alterations
- Interactive constructions for fit optimisation and style modification
- Integrated import and export interfaces

For further information: www.grafis.com/clothing
Interactive constructions for GRAFIS CAD Clothing

GRAFIS® offers a large number of interactive basic constructions allowing you to work intuitively. Not only standards such as bodice variations, trouser variations, skirt variations and sleeve variations are included in the package but you will also find many more different constructions for collars, hoods or pockets. However, the advantages of interactivity do not end with the basic constructions. Interactive development tools such as the trouser vent or the front edge also help speed up your style development.

In addition to the existing basic constructions, for Version 12, new interactive patterns for the underwear area have been developed. As well as the slip and body, specific constructions for bras, corsage and bathing suits are now available.

For us, the main advantage of the GRAFIS CAD System is the constructive adjustment of patterns based on measurement charts with maximum interdependencies. The help programmes and modules included in GRAFIS enable a multitude of design possibilities, every alteration is transferred to all pattern pieces of a style with one click of the mouse. Trends can be translated very quickly through the interactive method by modifying or varying styles or even combining styles without compromising the tested grade and fit in the process.

As GRAFIS does not grade with grade rules but via body measurements or rather with a re-construction on the basis of body measurements, there is a strong connection to fit during grading. For me, this shows in particular in the quality of the grade. In addition, this way of working simplifies considering customer-specific particularities. When grading a new style, you always have the fit-optimised basic pattern in front of your eyes. This is a lot clearer than abstract grading via grade rules. The principle of re-construction has the further advantage that alterations are automatically transferred to all relevant pieces. In particular, alterations to fit can be carried out quickly, simply and reliably. It is even possible to change a finished style to a different fit without much effort.

I think, the biggest advantage of GRAFIS is the fact that you work very fit-related, which improves the quality (of the fit) significantly, in particular in large sizes and with constructions far removed from the basic pattern.

Katrin Kornea, pattern maker
Anja Gockel
Mainz, Germany
We have in-house embroidery in our studio and here also, the programme is a fantastic help. GRAFIS offers us the option to select the perfect position for the embroidery motives on the layplans in advance and transfer them very easily onto the other programme. Thus, GRAFIS is very compatible and we never again want to miss the numerous advantages.

Your advantages
- Layplans for cutting
- Pre-calculation of materials
- Comprehensive adjustment possibilities for specific requirements

For further information: www.grafis.com/layplanning
**CutterControl**

No compromises for cutting

Your cutting becomes particularly effective and precise when using a cutter. GRAFIS® offers you an optional uncomplicated interface for controlling single ply or multiple ply cutters. The GRAFIS® CutterControl interface supports your automated cutting of pattern pieces. Apart from controlling the knives for the cut contours, many further settings are available to adapt the cutter output to your requirements. You have the option to start cutter output automatically or to control each piece individually. You can also choose to determine the starting position, the cutting direction and the cut sequence manually.

Obviously, in addition to your cutting tools you can also control the drawing and drill tools of your cutter separately. Your advantage for cutter output is the ability to separate especially long layplans into segments, enabling you to achieve great results even with a small cutter.

**Your advantages**
- Uncomplicated output of layplans for cutters
- Use of drawing and drill tools
- Division of large layplans into segments
- Output in rough cut and fine cut

For further information: www.grafis.com/cuttercontrol

---

**AUTONESTER**

While you start your next style development, Autonester lays your layplans

GRAFIS® Autonester is an optional addition to your layplanning programme which lays your layplans fully automatically. The result is a layplan optimised on material consumption, which contributes to the economic success of your production through its efficiency and time saving.

**Your advantages**
- Automatically layed layplans
- Optimised material consumption
- Time saving for laying out layplans

For further information: www.grafis.com/autonester

---

**Cut-order Planner**

Plan your orders and create the corresponding layplans fully automatically

Your sales department has signed a large number of orders. You are presented with a lot of figures: amounts, styles, sizes, colour variations, style variations. Now it is up to you to divide these orders onto layplans and at the same time, consider the requirements of your production department. The new GRAFIS® Cut-order planner is the perfect tool for you. Ideally, you acquire the order information straight from your ERP system.

Then, you plan your orders in clear dialogues and create your layplans automatically. If you are already using GRAFIS® Autonester, you can have the layplans layed directly. Then, GRAFIS® Cut-order Planner arranges the layed markers into cutting stacks, taking into account the maximum layer height and table length of your cutter. Finally, corresponding layplan chains can be plotted and print forms can be printed, if desired.

**Your advantages**
- Optimum and clear preparation of orders
- Transparent calculation
- Information transfer from ERP system
- Automatic distribution into cutting stacks

For further information: www.grafis.com/cutorder

---

The use of fusing blocks is also accommodated during cutter control. For the fine cutting, a separate cutter file is generated within a layplan, simplifying subsequent cutting of the small pieces. With the help of special text annotation, bundling devices can also be controlled.

The GRAFIS Team is happy to collaborate with you for further customisation.

**Your advantages**
- Uncomplicated output of layplans for cutters
- Use of drawing and drill tools
- Division of large layplans into segments
- Output in rough cut and fine cut

For further information: www.grafis.com/cuttercontrol

---

A real asset for production pre-planning is the new Cut-order Planner in combination with the tested Autonester, which is very fast and so clearly designed that it is very easy to handle. Our Bianca Team has been working enthusiastically with GRAFIS Software since 1994 and values the GRAFIS Company as an extremely reliable partner.

**Your advantages**
- Optimum and clear preparation of orders
- Transparent calculation
- Information transfer from ERP system
- Automatic distribution into cutting stacks

For further information: www.grafis.com/cutorder
3D VISUALISATION

Shorten your product development phases and visualise your ideas

The production of prototypes, which cost significant time and money, can be reduced to a minimum with VStitcher® from Browzwear and the GRAFIS® Plugin for VStitcher®. The amount of sample pieces can be significantly reduced, communication within your company is simplified and the simulation is perfectly suited for product presentation, marketing purposes or actual sales.

With GRAFIS® CAD Clothing Construction and VStitcher® from Browzwear you can illustrate and simulate all your styles in 3D, so that you can finally check your fit instantly without expensive and time-consuming samples. Preparation of your styles including all information required for the simulation ensues directly within GRAFIS® CAD. All pattern pieces can be virtually sewn in GRAFIS®. The positioning of the pieces, their alignment in 3D and manufacturing elements such as pleats, gathering, creases or folds become part of your production style. The GRAFIS® Plugin enables a direct transfer of the style to VStitcher® with instant simulation possibility.

You now have the ability to simulate style modifications to fit and design directly without further preparation within seconds. Material and texture properties already assigned to material and seams in VStitcher® remain intact during each style update.

Graded or made-to-measure pattern can also be visualised. The avatar is adapted in VStitcher® or loaded as a ‘Scanatar’. Inspire your customers with this great potential for individual fittings.

The realistic simulation enables you to tweak the fit directly. This close interaction between 2D pattern construction and 3D visualisation is unique.

Your advantages

- Early prototype development – long before samples or materials are available
- Realistic 3D pattern visualisation in real-time
- Fast and precise 3D style development
- Improved communication and collaboration between designers and manufacturers
- Reduced development cost

For further information: www.grafis.com/3D

We gain a competitive advantage, in using a high level pattern-making system, GRAFIS and an easy 3D and effective interface with Browzwear, for first visualisation and Proto Development. Both GRAFIS and Browzwear development teams provide us with Excellence in both disciplines! This is much appreciated by our customers.

Our skills in GRAFIS patternmaking and Browzwear 3D visualisation, have increased markedly since we integrated the two different, but compatible softwares into our practise. We have every intention of continuing to build on those skills, because the benefits are abundantly evident.

Toni Patricia Stalls
Collingwood, Australien

Images
- Pattern and simulation jacket with pleats
- Simulation shirt with shrinkage and transparency
- Simulation blouse with embroidery
- Simulation blous and trousers
- Simulation biker jacket
01 Torso front | Flat
02 Torso back | Flat
03 Neck | Collar
04 Arms | Left - Sleeve
05 Arms | Right - Sleeve

3D Visualisation
Images
- GRAFIS style with seams and clusters
- Cluster settings
- VStitcher pre-positioning
- Compression visualisation for fit control
- VStitcher materials
Individual patterns adapted to the customer without tape measure and expensive body scanner

Inspire your made-to-measure customers with the modern and comfortable way of taking measurements without tape measure. You save the cost and space requirements of a body scanner.

With the ProfileFitPattern Suite you are able to determine the body measurements of your specific customers with two digital photos. This opens completely new possibilities in the market of individualised clothing as you do not have to summon the customer for measuring or rely on measurements taken by the customer. PFP Suite thus allows you to professionally determine customers' body measurements, world-wide, without the need for complex arrangements.

In future, simply take photographs of your customer in front and side view to obtain all body measurements required for pattern development. These photos can be generated by the customer, for example for made-to-measure orders from an online shop. With PFP Photo you correct the lens-distortion, rectify the perspective, scale the photos to a scale of 1:1 and align the image.

The images are used in GRAFIS® CAD as a template for a profile construction with which the silhouette of front and side view are interactively reconstructed.

GRAFIS® determines the length, width and circumference body measurements from this profile. These can be used as a measurement chart for style development, enabling you to realise existing styles directly for individual customers.

Depending on your experience, you will have extracted the customer's measurements in approx. 15 minutes including processing in PFP Photo and adjusting the profile. Furthermore, you will already be familiar with the posture and the figure-specific characteristics of your customer through the photos. This knowledge can be instantly incorporated into the style development. Through incorporation of the images into the style file, you have your customer in front of you at all times.

Your advantages

- Cost and space requirements for a 3D body scanner are omitted
- Photos can be generated by trained staff or directly by the customer
- Contactless professional measuring
- During style development you can take into account the posture and figure-specific characteristics of your customer

For further information: www.grafis.com/PFPsuite

Before we had ProfileFitPattern, we naturally measured our customers manually. But even three perfectly trained dressmakers obtain three different measurements. With the programme you therefore not only save time but also benefit from accuracy. The main advantage for us, however, is the fact that you have something visible in front of you during construction. Even in a small business, with numerous customers it is impossible to remember all the important details, such as the posture of a client etc. With the programme you have control which you can recall at any time. This brings security, calm, accuracy, time and effort saving and therefore, cost reduction later on. You also have proof against the customer in case of significant changes of weight in the time between measuring and fitting for example. The programme simplifies our day-to-day work in many ways and as enthusiastic customers we can highly recommend GRAFIS.

Tip

The programme ProfileFitPattern Photo is part of the ProfileFitPattern Suite and can also be used for digitising photographed pattern pieces.

Doren
Doren Design – Hochzeits- & Festtagsmode
Renate Schein, owner
St. Stefan im Lavanttal, Austria
www.doren-design.at
**PROFILE FIT PATTERN PHOTO**

**Digitize wherever you are**

Transferring pattern pieces into a CAD system via a digitizer is tedious and frustrating. The result can only be evaluated after the digitizing process is finished which often leads to inaccuracies or untidy curve runs. The purchase of a digitizer tablet is expensive and requires a significant amount of space. Our ProfileFitPatternPhoto programme provides the solution!

PFP Photo enables digitizing of paper patterns or sample pieces without a digitizer tablet. The pattern pieces are photographed with a digital camera, processed in the PFP Photo programme and then, digitized or reconstructed in GRAFIS® CAD. With only one photo you can process a number of pattern pieces.

The digitized outcome matches the accuracy of measurements of a result digitized with a digitizer tablet. As the digitized curves can be compared directly on-screen with the original, the curve accuracy is significantly greater.

Grade rules for grading can be assigned to patterns available in the sample size only. If the graded nest is available, digitize the basic contour and the grade rules at the grade points directly. In both cases, the result is a gradeable grade rule pattern. A photo processed with PFP Photo can also simply be used as a photo template for adjusting interactive constructions.

**Your advantages**

- No expensive digitizer table required
- Space requirement for digitizer tablet omitted
- Flexible and location-independent digitizing

For further information: www.grafis.com/PFPphoto

**PATTERN ON DEMAND®**

**Customer as co-designer**

With Pattern on Demand® you can offer your customer the opportunity to co-create their personal clothing style in terms of cut, shape, colour and fabric. You can confidently face the great challenge of converting the order reliably, quickly and simply into the corresponding pattern and preserve it for future orders.

For controlling a continuous and consistent workflow from webshop to pattern cutting, Gertsch Consulting & Mode Vision have developed the programme Pattern on Demand®. This programme helps you to process made-to-measure orders efficiently and with maximum confidence.

In particular for custom-made production and made-to-measure manufacture, GRAFIS® CAD demonstrates its great strengths. The control of styles via body measurements and parameters and triggering of automated processes from outside is carried out by Pattern on Demand® via the optional script interface.

An order placed in the web-shop drives GRAFIS® to automatically create and output a style pattern based on the selected options and entered measurements. Immediately after an order has been placed you can now output the layplan for manufacture.

**Your advantages**

- Fast, low-cost and reliable processing of e-commerce orders into patterns / layplans
- Standardised processes offer repeatability
- Maximum flexibility and functionality
- Material and time saving

For further information: www.textilnet.ch www.patternondemand.info (Demowebshop)
Optimise your upper development

With GRAFIS® CAD Shoe Construction you have the possibility to generate patterns based on lasts according to the construction principle. Grading a ready-to-wear shoe in GRAFIS® is a combination of proportional increase of the upper basis and the subsequent style development. The special feature of GRAFIS® is that the construction steps are recorded during style development and are then automatically re-processed when grading other sizes. Influencing grading through size-dependent adjustments of individual parameters is also envisaged.

Grading groups can thus be created and implemented quickly and efficiently in this way. Furthermore, GRAFIS® offers you the possibility of building your styles based on interactive upper constructions. These interactive upper constructions can be adjusted interactively or via value entry. They offer a multitude of possibilities for style modification and fit optimisation. For made-to-measure shoes and in particular orthopaedic shoes GRAFIS® offers special functions, as the upper constructions can easily be adjusted to individual lasts and asymmetric foot shapes. Subsequent corrections or modifications of the style development are possible at all times via the adjustment of parameters. Each style can be adjusted for a specific customer. This relates to the fit as well as to the styling.

GRAFIS® automatically creates interdependencies between your pattern pieces. A modification of the development part automatically leads to adjustment of the dependent pattern pieces. Therefore, no undesirable differences in seam lengths occur. The interdependence also offers you an effective and fast creation of style variations.

For data exchange with a number of other CAD systems, the import and export interfaces integrated in GRAFIS® are at your disposal, ensuring that you can work with production sites or freelancers without any problems and generate DXF files for cutting systems.

Your advantages
• Interactive constructions for fit optimisation and style modification
• Divergent adjustment for orthopaedic shoes
• Automatic grading
• Parameters ensure maximum flexibility
• Interdependencies of pattern pieces simplify the modification of styles
• Integrated import and export interfaces

For further information: www.grafis.com/shoes

We place the uppermost importance on sustainability and quality. Thus, the fit and comfort of a shoe are our highest priority. Therefore, we invest a lot of time in the upper construction and the exact adjustment of the styles to the requirements of our customers. Up until 2016, upper construction was carried out exclusively by hand. Through experience and good training, we were able to optimise this process to a certain degree. As each foot is unique, each style must be adapted exactly to the customer. This is done significantly faster with GRAFIS than by hand. No matter how complicated a style, once it has been constructed, it can be adapted to the foot and the requirements of our customer within a short space of time. Therefore, the path from the finished shoe to the customer is faster and reproducible, and this benefits not only us but in particular our customers. With GRAFIS, we can grade an orthopaedic style also on standard lasts and then, use it for our own collection. As we systematically generate each new style in GRAFIS, our style variety grows on a daily basis and is immediately available to our customers.

Orthop. Berger-Geier GmbH
Alfred Berger, managing director
Birkfeld, Austria
http://www.orthop.at/
With us, there is real help from real people

We don’t leave you alone with our product. Naturally, we are at your side not only for setting up GRAFIS® but also for technical questions, enabling you to work at optimum level. We look forward to a long and successful partnership!

Mail and telephone support

The simplest way to solve your problems is to contact the GRAFIS® Team. We help you simply and unbureaucratically! You quickly receive replies via e-mail or telephone. Furthermore, direct help via screen sharing has proven successful in visualising a solution.

On-site service

Some problems cannot be solved remotely. In these rare cases, we offer you the option to come to you and solve the problem on-site.

Instructional material

When purchasing a GRAFIS® licence you receive a comprehensive textbook free of charge to introduce you into the functionality of GRAFIS®. Furthermore, an extensive library of tutorials in video and written format are available.

Maintenance contracts

We offer a variety of different service and maintenance contracts adapted to your individual needs, providing you with more intensive support, preferential treatment or regular software updates for example.

GRAFIS has become indispensable for my daily work. In the area of individual manufacture in the most versatile materials such as fabric, leather, fur and knitwear, GRAFIS offers me sufficient options for design. And if there is a problem, the support always helps competently and uncomplicatedly via the existing remote maintenance.

Martina Stertz, furrier
Koblenz, Germany
http://martina-stertz.de/

Training

To achieve the best results, you should be optimally trained. Our comprehensive training courses offer you an in-depth experience of GRAFIS®. Our courses are designed to enable you, within two weeks, to incorporate GRAFIS® effectively, facilitating the generation of graded production patterns. To ensure intensive learning, our courses are held in small groups of two to maximum nine participants.

GRAFIS I Clothing

40 hours (5 days / 8 hours)
At the end of the course you receive a certificate.

GRAFIS II Clothing

40 hours (5 days / 8 hours)
Prior knowledge of GRAFIS® I Clothing is a pre-requisite. At the end of the course you receive a certificate.

Day training and workshops on new features in Version 12

7 hours (day course)
Active use of previous version(s) is assumed. After releasing new versions we offer day courses in small groups. This allows you to get to know the new and further developments of GRAFIS® and at the same time gives you the opportunity to meet interesting people working in the same sector.

Individual training

Have you had a longer pause or are you facing new areas of application? Book an individual course. We respond directly to your company-specific questions! These can be questions about particular styles or areas within GRAFIS® you want to master more effectively. With our individual personal training courses we get you up to speed. This enables you to exploit the possibilities of GRAFIS® even better for yourself.

For further information: www.grafis.com/training