EuroCAD is the complete CAD solution for apparel industry, providing fast and accurate support for the entire preparation of a new garment, from simple design to production optimization & automatic nesting. EuroCAD working station can be used as a stand-alone design station or integrated in a local network, offering a large flexibility to perfectly fit any user requirements.

www.eurocad-systems.com
How to choose a CAD system?

- Ask several competitors to make you full demonstrations in parallel, processing a product through all technical steps: design, grading, checking, altering, digitizing, cut planning, marker making. Forget about the system’s name and compare the features step by step.

- For each system, carefully check if the automatic marker making module is included, what is the speed and efficiency of this module. Ask if there are any supplementary modules for higher performance and ask about the price of each supplementary module.

- Ask for the user manual and all the support documentation in your language. Beside its practical value, the user manual is a proof of manufacturer’s dedication to helping and providing a high quality product for you, the customer.

- Ask for the draft contract and check out all written specifications about training, service, warranty, technical support. Analyze all costs for later personnel training in case you are expanding or changing the team. Analyze the system capability to import and export patterns and markers from/to other cad systems. The system should be able to import from standard DXF AAMA format, as well as from native formats of other systems, like lectra, gerber, assyst or investronica. If the conversion modules are not included in the basic configuration, ask for the supplementary price.

- Check the maintenance and operation costs for the plotter: ink, pens, paper. Avoid equipment that uses expensive consumables, which can be purchased only from restricted sources. Look for equipments that use popular, affordable ink or pens, which can be purchased from many suppliers.

- If you are not sure about the utility of a CAD system in your company, or how it is going to be integrated into your technical flow, ask for a trial period. This is the best way to check if a certain system is what you need, without any risk.

- Ask for references from other customers. Look for companies that are the same scale and profile as your company, and maybe manufacturing the same range of textile products. Try to communicate directly with the people working in the CAD department. Don’t ask for a good/bad answer; try to find out as many details as possible.

- Check out how the customer can obtain the new versions of the software, and the costs, if there are any. Visit manufacturer’s website to see if updates or new versions of the software are available to download.
Tailoring Assistant

The clarity and advantages of traditional geometric design

- Classical step by step parametrical pattern design
- Perfect match for the shape and dimensions of the patterns on all sizes
- Complete automatic pattern grading, using directly the dimensions from the size table
- Automatic pattern reshape to fit individual dimensions of each client - made to measure
- Automatic pattern reshape to fit extreme sizes, maintaining the perfect pattern correspondence

EuroCAD Tailoring Assistant is the latest module from the EuroCAD 2D software package and it was developed to cover two main applications in garment design:
- For fashion houses, haute couture boutiques and other companies that produce on demand, made to measure clothes, EuroCAD Tailoring Assistant can provide automatic pattern reshape to fit the individual dimensions of each customer. It can be used for any type of clothes that requires a perfect match on the client’s body, such as night dresses or men’s suits.
- For mass garments production, EuroCAD Tailoring Assistant provides full automatic grading on different size sets, and it is capable to grade a single product for several different size tables, for different markets, without any human intervention. For instance, the same shirt, designed only one time as a parametric project, can be automatically graded at a blink of an eye to fit the standard size chart for Belgium and after that, without any intervention can be graded for the standard size set for United States.

The most remarkable feature of V11 EuroCAD MTM is that you can generate automatically from EPD the webpage for each new product, and this HTML page can be directly integrated into your website for online MTM garments sales.

While working on the CAD system, you encounter a small problem. You cannot remember exactly the order of each step for using a certain function. You need just a little help or a small hint. You may call the technical assistance, or...

... just press a button in the program and the technical assistant from EuroCAD office will see your computer screen and show you live how to solve the problem.

EuroCAD Remote Assistance Service
state of the art technology incorporated into EuroCAD products for the benefit of our customers
Spread & Cut Planner

Plan and optimize the spreading and cutting, manage your orders

- Automatic and manual lay definition
- Automatic order optimization
- Cutting-Room order report
- Export for plotters, cutters
- Export for other CAD systems

EuroCAD Spread & Cut Planner is the link between the design room and the cutting room. It provides fast and high quality automatic or interactive optimization for the spreading and cutting operations.

In EuroCAD Spread & Cut Planner application, the operator sets the quantity of pieces ordered by the client for each model, size and fabric, and some general settings regarding cutting: the preferred spreading length, the maximum number of sheets in the lay and the fabric’s width. The EuroCAD Spread & Cut Planner application can automatically generate the most efficient plan for product grouping and distribution, so a minimal number of markers and lays are needed to obtain the ordered quantities. This automatic operation lasts for 1-2 minutes. The user may choose among several automatic strategies of lay planning, as well as manual or semiautomatic methods, so the best results are obtained every time.

All reports can be exported in Excel format
As easy as 1, 2, 3 ...:

1. Capture the image

Don’t waste time placing the patterns on a special digitizing surface, fixing them with adhesive tape or other time-wasting methods. Just clean-up a bit your normal working table, leave the patterns there and go to computer. ONE simple click, and the camera automatically captures the picture and transfers it to the computer. The image is automatically processed and the patterns are extracted in just few seconds. A smart and simple calibration procedure is necessary only one time when you first install the system, offering a comfortable precision of less than 0.7 mm.

2. Control & Edit

Quick and easy inspect the result of the automatic digitizer using the Contour Play function. Measure distances and perimetral contour, check and adjust the internal elements or the shape of the curves if necessary, add or delete any element, input the piece name, all in one single window. Done ! Easy to use zoom and navigate functions and the special magnifier viewer make your activity easy and efficient.

3. Save the patterns

Save the patterns directly in the native format of your CAD system. It does not matter what CAD system you use, the photo digitizer is compatible with it (see the list on the back). The system will remember the save settings (location, format, etc), so you can have the patterns available directly to you CAD system with one simple click.

What elements of patterns will be extracted automatically?

The photo digitizer can automatically extract the pattern contour, using precise Bezier curves, can identify corners and mark it as reference points, can identify different type of notches (marked or cutted), internal points and internal lines.

By convention, the longest internal line found will be declared as grain axis. When the pattern are create inside the office, it is useful to respect some standard marking procedures, avoiding any manual adjustment of the digitizing results.
From input to output: easy to use and reliable

**EuroCAD Hardware**

**G-Smart Digitizing Table**
- tracking technology: inductive
- resolution: 1000 pixel / inch
- Active area 90 x 120 cm
- Tracking pointer 16 buttons,
- Fast Access zone,
- Vocal confirmation System: Romanian and English

**EuroCAD FlexiCut LFC 1411**
- max. cutting thickness: 5 mm
- max. cutting speed: 35m/min
- active table area: 1,10m/1,40 m
- operating voltage: 400V/50/60Hz
- vacuum unit: 1.5kW/2.0kW
- average consumption: 2.0 kW
- protection class: class1
- compressed air: 4l/min
- weight: 260 kg
- tool options: oscillating knife, hole puncher, drawing device

**EuroCAD FlexiPen 165/180/200**
- plotting technology: pen
- resolution: 1016 pixels / inch
- total width 1650/1800/2000 mm
- active plotting width 1650/1800/2000 mm
- automatic paper feed with optical sensor
- automatic rolls the outputed paper
- max. pen speed 800 mm/sec
- supported language HPGL, RS274, ISO-CUT
- plotting software included

**EuroCAD FlexiJet 165/180/200**
- plotting technology: inkjet, 4 ink cartridges
- standard HP45 refill cartridge
- active printing width: 1650/1800/2000 mm
- weight: 108 Kg
- plotting speed: 180 m²/h;
- interface: USB
- supported languages: HPGL(PLT) and RS274D(CUT)
One of the most important new features of EuroCAD V11 version is the new cutter export module. This offers a perfect compatibility with any old or new automatic cutter, whether high ply or single ply, ISO CUT or HPGL. The program offers a full customization of the language format, as well as an impressive number of functions that help the user to get the maximum quality and speed from the cutting process.

- Start point and cut path optimizer
- Double line removal
- Smart gap: removal of gap between two parallel straight edges
- Butterfly cutting
- Cutting order by layers
- Notch management: cutting sequence, size and type
With care, for all other CAD Users

Automatic Nesting Server for Lay Assyst, Gerber Accumark and Lectra
- Based on EuroCAD Automarker state of the art nesting technology
- Performs full automatic, high efficiency marker optimization in 3-5 minutes
- Direct import and process Assyst/Gerber/Lectra markers from local area network
- Direct export for Assyst/Gerber/Lectra bullmer cutters and plotters
- Delivered "Ready to Work", all software preinstalled and configured
- Available in all languages
Automarker

A breakthrough in automatic nesting

- Full automatic, high efficiency marker optimization
- Special features for markers on fabrics with lines or stripes, tubular or folded fabrics, for fuzing-block definition, for fabric contraction
- Over-night marker optimization for large volume of work
- Fully compatible with markers from Gerber, Lectra and Assyst
- Fully compatible with all types of plotters and cutting machines from Gerber, Lectra, Assyst and others

EuroCAD Automarker is an advanced solution for automatic nesting in apparel industry, developed by EuroCAD System, but also available for users that work on other CAD products (direct convertor from Lectra, Assyst, Gerber and also from all applications compatible with DXF - AAMA standard format).

EuroCAD Automarker is based on state of the art technology and algorithms that will provide excellent nesting results in record time. It can run full automatic nesting for one individual marker or work continuously for a list of markers, with no human intervention required. The usual time needed for an average marker of 8m is about 3-5 minutes. The average results in terms of speed and efficiency are considerably higher than manual nesting.

EuroCAD Automarker can perform full automatic nesting on simple, folded or tubular fabrics, with or without plaids, stripes or textures, with specific widths and contractions, according to each piece specifications and freedom. EuroCAD Automarker can output the nesting results in its own file format *.pt or *.mrk, but can also export in all major industry standards: DFX-AAMA, HPGL-PLT, ISO-CUT and RS274D. After automatic nesting, the markers can be directly plotted or send to automatic cutting machine.

Boost nesting performance
*using the new EuroCAD Multi-Core automatic nesting

In V11 Quad-Core Automatic Nesting you can optimize in 1 minute a marker that used to take before 4-5 minutes.

Most of nesting applications use only one core of the processor

EuroCAD MultiCore Automatic nesting uses all cores of the processor
Pattern Designer

Easy design, digitize, grade, verify and print your perfect patterns

- Quick and accurate pattern design, using basic design tools and advanced geometrical procedures
- Advanced model design and make-up with simulation for darts, folds, etc
- Automatic and manual pattern grading
- Pattern checking and verifying, measurement table, real time watcher
- Pattern digitizing, support for fast access digitizing functions, vocal confirmation
- Editor for technical documentation, including support for graphical add-ons
- Import and export in/from international standard formats

When you design your own products or collections, EuroCAD Pattern Designer is the software environment in which the designer’s ideas are easily transformed into perfectly built and checked pattern projects.

Gifted with unique design functions like reversible folds and darts, automatic & interactive seam allowance creation, automatic notch translation and the all-sizes dimension watcher, EuroCAD systems allows a quick and perfect pattern design.

Automatic grading and the interactive grading functions allows the previous experience to be stored in grading rules and easily applied to the new products.

EuroCAD Pattern Designer is based on Bezier curves, but can also handle complex polyline or B-Spline Curves.

The EPD’s interface has a very different approach compared to other CAD applications, because is built to be extremely user friendly, according to the latest software standards.

EPD comes as standards with a built-in convertor for Gerber, Assyst, Investronica and Lectra native files and also for DXF-AAMA import and export.
EuroCAD Workflow

Series Garment Production

- Digitizer
- Pattern Designer
  - On-Screen Design
  - Alteration & checking
  - Automatic Grading
- Product Reports
- Converting
  - Lectra
  - Assyst
  - Gerber
  - Investronica
- EuroCAD
- Cut Reports
- Automarker
  - Automatic Nesting
- Cutters
- Plotters

MTM Garment Production

- Website
  - Order
- Tailoring Assistant
  - POS- Point of sale terminal
- Pattern Designer
  - with MTM
- Nest Expert
  - Automatic Nesting Server
- Single Ply Cutter

EuroCAD Workflow

On-Screen Design
- MTM On-Screen Design
- Alteration & checking
- Automatic Grading
- Direct HTML style option export

Website
- Web terminal for online MTM shopping