MICROCAD.

Old traditions, new tools.

AIMPES

The centenery art of designing leather goods
combines creativity with the technical ability to create models.

Aimpes CAD was strictly developed with all traditional design phases in mind
while adding precision and speed of a computer system.

Aimpes CAD is therefore a secure investment in technological innovation
for any company wishing to computerize their entire design and production processes
while fully respecting craftsmanship.

AIMPES BASE

The starting line

Every solid structure needs a strong and organized base.
Aimpes BASE is the starting point to manage all the information wired to the model: archives, codes, users, images, materials, jobs, colour matching, costs and reports.
All in real time to optimize team work.

AIMPES CAD MODULE

The CAD excellence

Thanks to the Autodesk parternship, Aimpes BASE can be upgraded with the Aimpes CAD Module, the only CAD in the leather goods industry that can provide AutoCAD as an integrated software.
The reliability of the industry-leading software is added a selection of more than 250 commands for leather goods, developed in full respect of the traditional and artisanal methods.

MAIN APPLICATIONS

STYLE
SECTOR

- View item data sheets.
- Progress status of real-time modeling design.
- Creation and control of brands, collections, models, colours, materials, variations, photographs, images, drawings and other useful data for the technical planning of pattern making.

PRODUCTION
SECTOR

- Generation of files to be sent to automatic cutting systems.
- View item data sheets.
- Selection of the articles (reports, photos, drawings and so on) from the database to be sent to outside companies for external processing.

CAD
MODELING

- 2D/3D model design planning.
- Automatic creation of lists of materials, processes and datasheets.
- Automatic calculation of scraps.

MANUAL
MODELING

- Archival entry with photographic capture of models manually processed and automatic quantity control.
- Automatic generation of list of materials and processes components.
- Automatic calculation of scraps.

COMMERCIAL
SECTOR

- View of the entire creation cycle of a collection with of sketches, photographs, drawings and attachments.
- View of the article reports and lists of production batch lists.
- Simulation of the production costs while using different materials.

MANAGEMENT
SECTOR

- Importing files from management system, entering materials, colours, processing.
- Bill of Materials (BOM) generation to import into the management system.
- Creation of production reports, both with numerical and design features.

MANAGERIAL
SECTOR

- Updating of the process development of the entire production through check on the activities... for a final "everything is under control" sensation

MAIN FUNCTIONS

	AIMPES BASE	AIMPES CAD MODULE
Users Management, with name and password administration	✓	
Create a new archive	✓	
Input and edit suppliers, materials, company colours, processes	✓	
Import materials from the system management in use	✓	
Input and edit work centres and work phases	✓	
Create and edit production trademarks	✓	
Create and edit collections	✓	
'Sets' Management (combinations and variations) of materials to be used in the collections	✓	
Management of material-colour combinations	✓	
Create and edit product types	✓	
Capture sketches, model photographs and materials using a scanner	✓	
Management of photographic archive of materials and photographic album of models	✓	
Statement of the article structure (list of parts making up the model)	✓	
Utilities to calculate the requirements of existing paper model from scans of the paper model	✓	
Generate and print materials and process lists	✓	
Generate and print production batches lists	✓	
Model graphic design (2D and 3D)	✓	✓
Input of existing models through video digitalization of patterns	✓	✓
Create print tables and cut dress patterns	✓	✓
Generate DXF AAMA files for transmission to automatic cutting systems	✓	✓
View model drawings	✓	✓

GRAPHIC DESIGN

The graphic part of Aimpes CAD is based on the celebrated AutoCAD® software which acts as a 'graphic engine' enhanced by numerous additional commands specifically designed for leather goods.

Designing takes place within the work grid, which with its easy-to-understand structure organizes and subdivides parts, materials, and processes for a work framework that is always under control.

New patterns can be created from a drawn pattern by complying with the perimeter's lengths (turn) including even the seam distance. Commands to create tucks, stitches, edges or pinches, to insert notches into a pattern and move them on different patterns, so creating figures normally used in the leather goods industry by simply providing the sizes, and many more commands make Aimpes CAD a powerful graphic tool that always keeps to the traditional design methods for each detail.
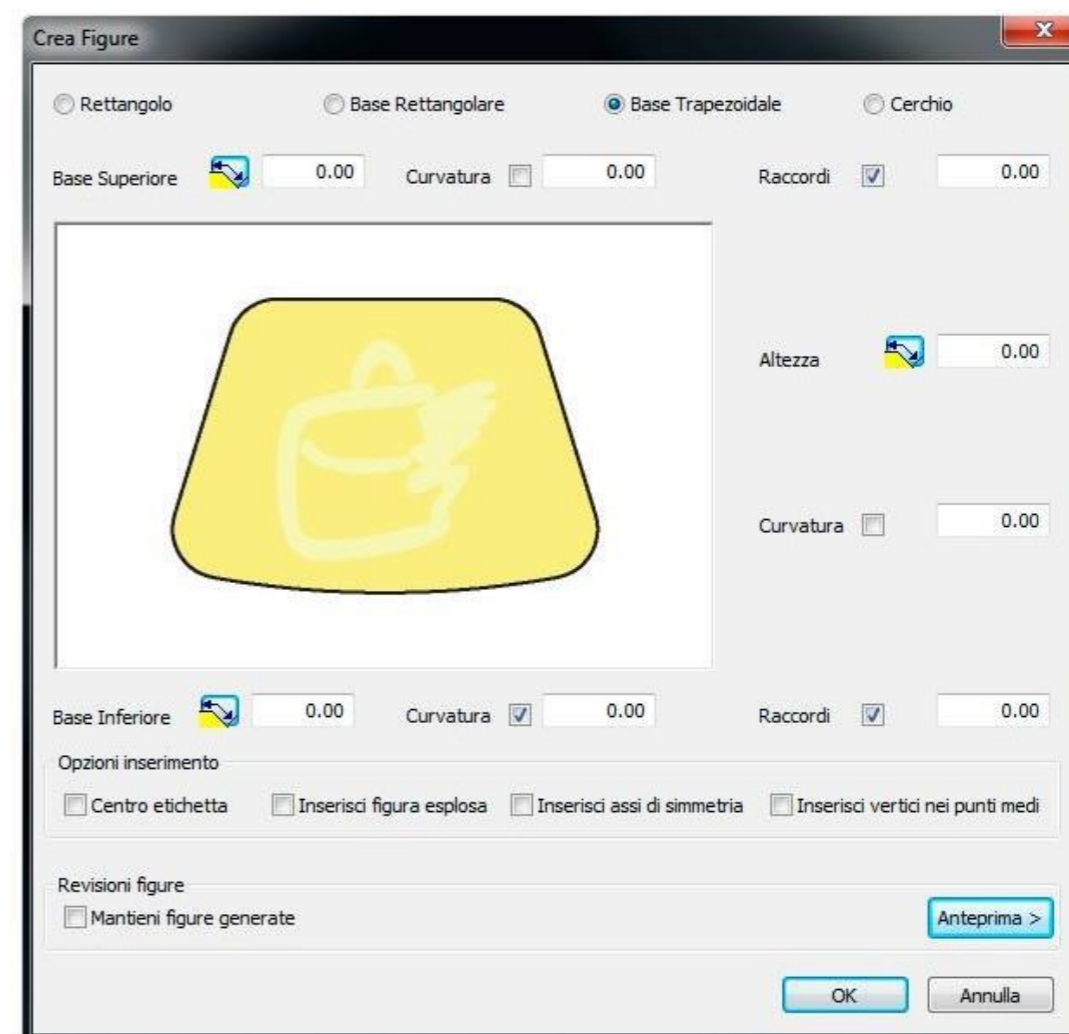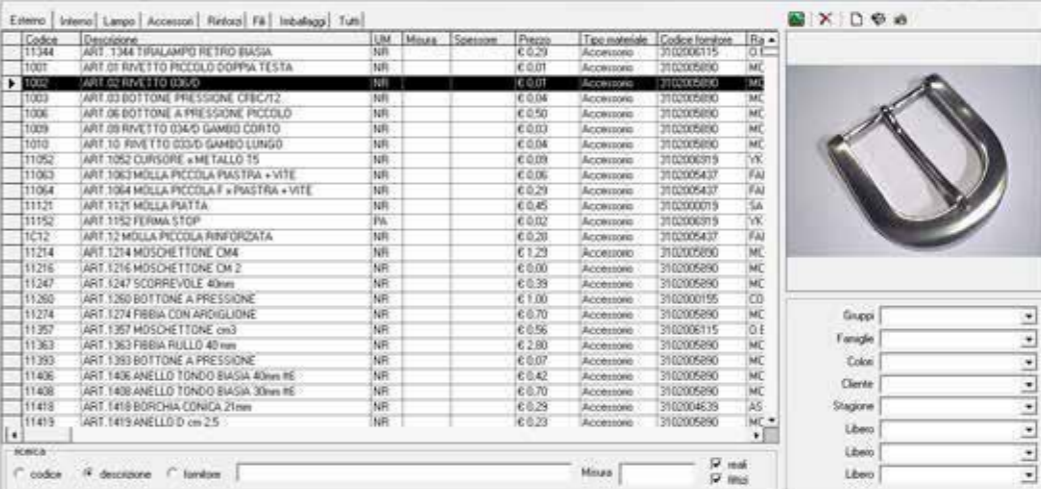
CALCULATION OF CONSUMPTION AND ESTIMATION OF COSTS

During the design of an item, material consumption and processing costs are calculated in real time. The materials that are not represented graphically (accessories) can be inserted manually, while the pattern drawn will return the exact quantity of material necessary, which increases in accordance with 3 steps of waste calculation:
- scraps due to the minimum cutting distance
- scraps due to the pattern's shape
- scraps due to the type of material

Even in this phase the classic system used in traditional design has been strictly reproduced. The possibility of intervening manually in every part of the calculation allows the system to easily adapt to the conditions of the various uses (with particular materials or manufacturing processes).

The exclusive use of the 'Sets of materials in the collection' also allows all cost estimations to be performed in real time making Aimpes CAD an essential tool for the company's commercial decisions.

CUTTING AND PRINTING PAPER-PATTERNS
CONNECT WITH MOST DIFFUSE MATERIAL CUTTING SYSTEMS

Once the model is complete, special commands allow the creation of 'plotting tables' that will be used to print/cut the patterns later. The arrangement of the pattern is saved with the model, thus making it possible to print/cut the series at any chosen time.

Complete management of all communication parameters means DXF AAMA customized files can be exported. Consequently, Aimpes CAD can be used in combination with the most common cutting systems, so a model can be designed and be either immediately prototyped and/or passed on to the production phase, completely bypassing the time and cost of manual cutting or socket punch production.
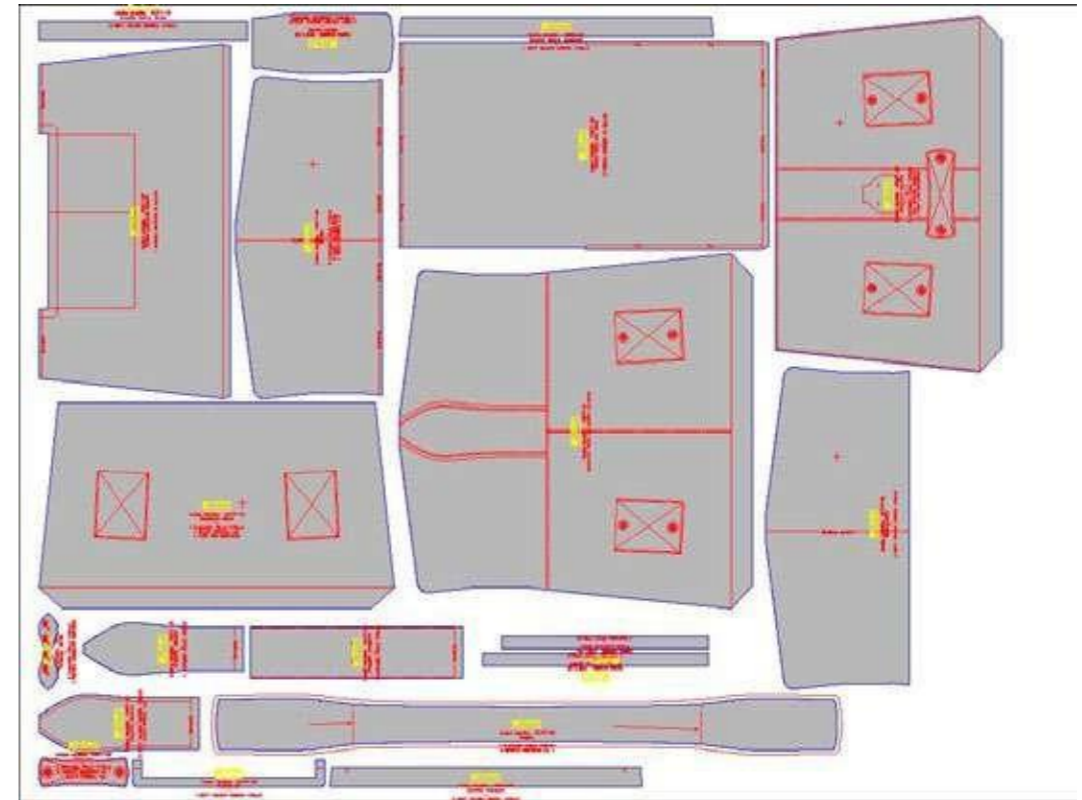
An example of automatic optimized deployment (Nesting)

GENERATION OF LISTS

The program contains the most common list forms used in the leather goods industry, and it has numeric lists that can be imported into management systems and graphical lists so sketches and photos for both the articles and for the materials can be inserted.

The graphic lists can be generated for both single articles and for batch production with consequent grouping of both materials and of variations.

Through the tool provided, it is possible to customize the form and content of the PDF: format, font, size and information.

This way, it is possible to print lists such as a list of materials used in a model, lists of instructions inserted in parts with matching images, or thickness reports as a document intended for the operator who will then be carrying out the work.

100% CUSTOMIZABLE

Aimpes CAD is updated daily, to ensure high performance and to meet the demands of commands and functions developed ad hoc, expanding perfectly in line with all the needs of the leather industry.

Online support

File access set by the administrator

Usable on a standalone computer or across company network

Entirely customizable according company needs

For more information

▲MICROCAD®

MicroCAD was established in 1987, thanks to the experience and the know how of various experts who have been utilizing informatic means applied to design some years.
Thanks to the deep knowledge of the Autocad software in 1988 MicroCAD becomes an Autocad Certified Training Center and an Autodesk Registered Developer in reply to the growing needs of companies to have a custom software.

Customized applications were made for clients such as Philips, Epson, Fiat, Tele+ and Agip.
Developed and distributed since 1994 for the Italian Leather-craftsmen Association AIMPES the Aimpes CAD software, intended for the leather industry, is the main leader in the field.

Chanel, Louis Vuitton, Versace, Fendi, Valentino, Salvatore Ferragamo, among many others, are some examples of famous brands that choose Aimpes CAD to design their products.