



Old traditions, new tools.

The century old art of designing leather articles
is combined with the technical ability to create models.

Aimpes CAD was strictly developed with all traditional design phases in mind
while adding the characteristic precision and speed of 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 CAD

Unique solution

The complete solution for graphic design and the computerization of the pattern shop. The work can be distributed between the various users in order to free the modeller from managing collections, photographs, materials, colour matching, etc. This allows each user to perform only his part of the job, with the results being immediately usable by all other users.

AIMPES OFFICE

Beyond pattern shop

Dedicated to all users who, though they do not need design, wish to access data, enter or edit materials in the management system, manage the photographic archive, calculate requirements and costs, generate production lists, etc. Using Aimpes CAD Office means designs in the archives can be displayed as it includes a simple, separate, and economical program for this purpose.



MAIN APPLICATIONS

STYLE SECTOR

- Visualization of technical reports of the articles.
- Real time analysis on the process of the model planning.
- Creation and control of brands, collections, models, colours, materials, variations, photographs, images, drawings and other useful data for the following technical planning of modelling.

PRODUCTION SECTOR

- File start for their input in the cut systems.
- Visualization of the technical cards of the articles.
- Selection of the articles (reports, photos, drawings and so on) to be sent to the outside companies for external processes.

CAD MODELING

- 2D/3D model design planning.
- Automatic start of material and processes components.
- Automatic calculation of the sfridi.

MANUAL MODELING

- File feeding of photo pictures of the templates of models manually processed and automatic quantity control.
- Automatic start of material and processes components.
- Automatic calculation of the loose factors.

COMMERCIAL SECTOR

- Visualization of the whole process of the creation of a collection with drafts, photographs, design and documents.
- Visualization of the article reports and lists of production allotments.
- Simulation of the production costs while using different materials

MANAGEMENT SECTOR

- Feed of materials, colours, processes and so on, as well as import of data from the management sector.
- Creation of cards to feed the management sector.
- Creation of production reports, both with numerical and design features.

MANAGERIAL SECTOR

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

MAIN FUNCTIONS

	AIMPES CAD	AIMPES OFFICE
Management of users, with name and password administration	✓	✓
Creation of a new archive	✓	✓
Input and editing of suppliers, materials, company colours, processes	✓	✓
Importation of materials from the management system in use	✓	✓
Input and editing of work centres and work phases	✓	✓
Creation and editing of production trademarks	✓	✓
Creation and editing of collections	✓	✓
Management of the 'Sets' (combinations and variations) of materials to be used in the collections	✓	✓
Management of material-colour combinations	✓	✓
Creation and editing of product types	✓	✓
Capture of sketches, photographs of models and materials using a scanner	✓	✓
Management of the 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	✓	✓
Generation and printing of the material and process lists	✓	✓
Generation and printing of the production batches lists	✓	✓
Graphic design (2D and 3D) of models.	✓	✗
Input of existing models through video digitalization of the patterns	✓	✗
Creation of print tables and cutting of dress patterns	✓	✗
Generation of DXF AAMA files for transmission to automatic cutting systems	✓	✗
Visualizzazione disegni dei modelli	✓	✗

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 devised for leather goods.

Design is performed using a software-generated grid with an easily understandable structure: each row is part of the article while each column is a material or a manufacturing process (as long as it can be represented graphically).

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.

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.

CALCULATION OF CONSUMPTION AND ESTIMATION OF COSTS

During the design of an article, 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 waste calculation phases:

- waste due to the minimum cutting distance
- waste due to the pattern's shape
- waste due to the type of material

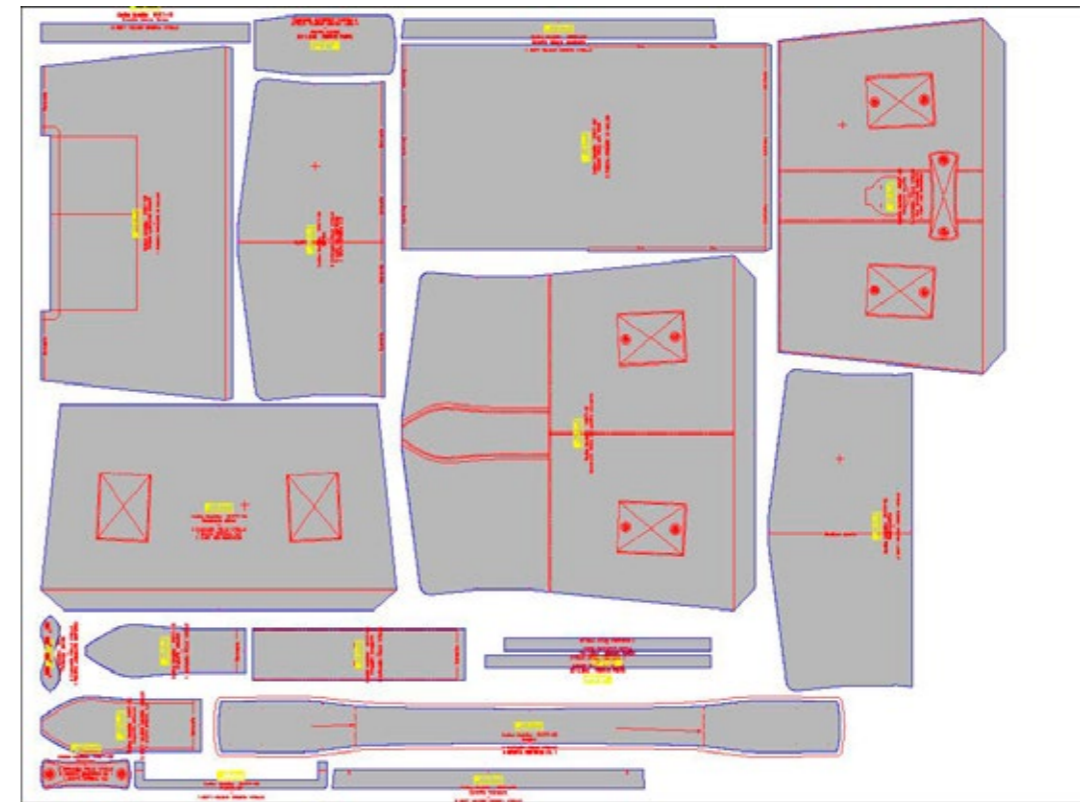
Even in this phase the classic system used in traditional design has been strictly reproduced. The possibility of intervening manually in every part of the calculation allows the system to easily adapt to the conditions of the various uses (with particular materials or manufacturing processes).

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 OF PAPER-PATTERNS CONNECTION 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 dress patterns later. The arrangement of the patterns is saved together with the model, thus making it possible to print/cut the series at any time of choosing.

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.



Nesting

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 informations

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

Since 1994 develops for the Italian Leather-craftsmen Association AIMPES the Aimpes CAD softwares, developed for the leather industry and the main leader in the field. Chanel, Louis Vuitton, Versace, Fendi, Salvatore Ferragamo, Valentino, among many others, are some examples of brands utilizing Aimpes CAD for designing their products.