



Old traditions, new tools.

The centenary 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 partnership, 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

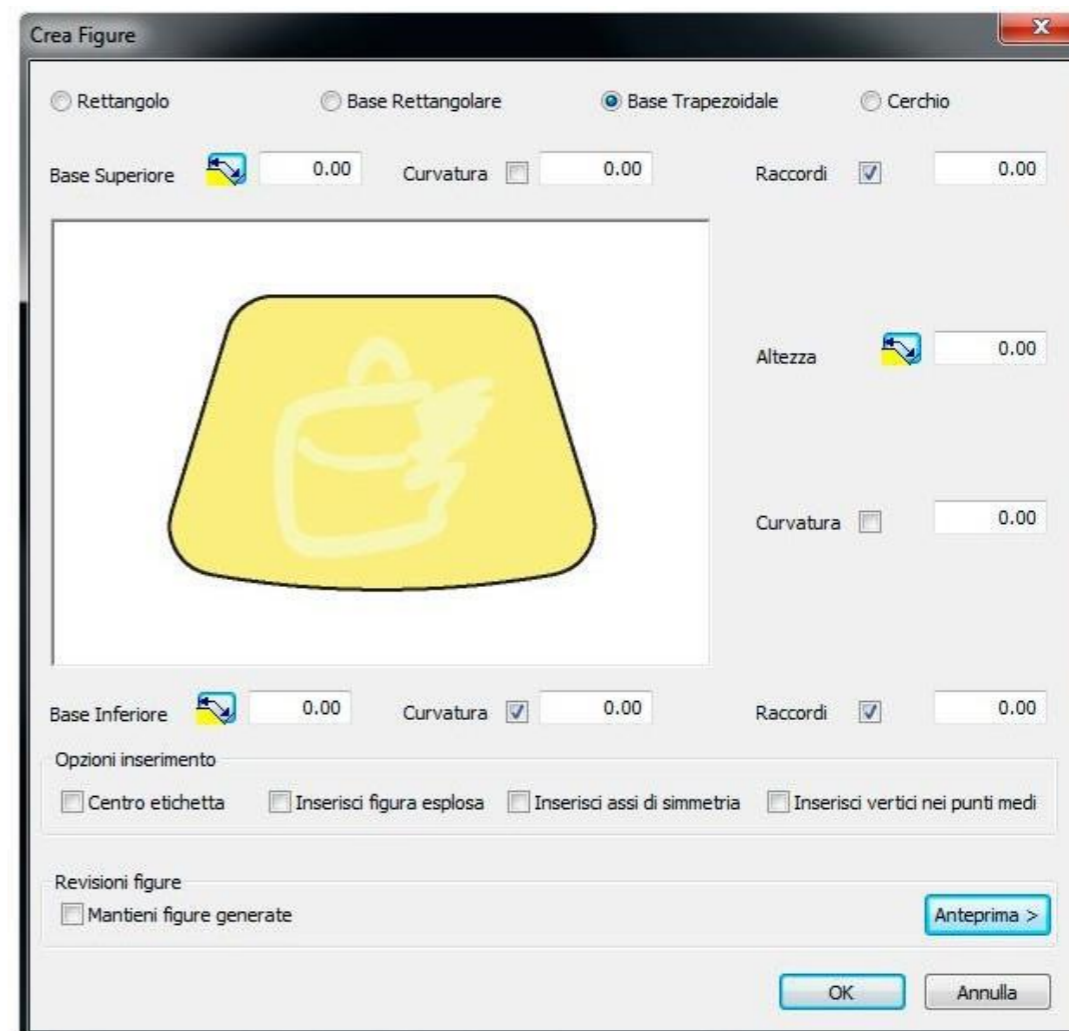
	AIMPES BASE	AIMPES CAD MODULE
Users Management, with name and password administration	✓	
Create a new archive	✓	
Input and edit suppliers, materials, company colours, processes	✓	
Import materials from the system management in use	✓	
Input and edit work centres and work phases	✓	
Create and edit production 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.



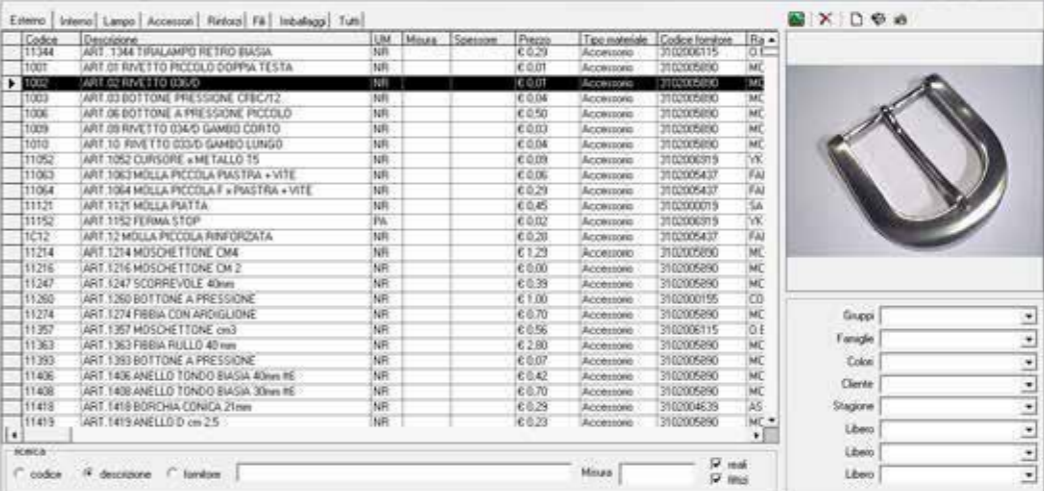
CONSUMPTION CALCULATIONS AND COST ESTIMATES

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.



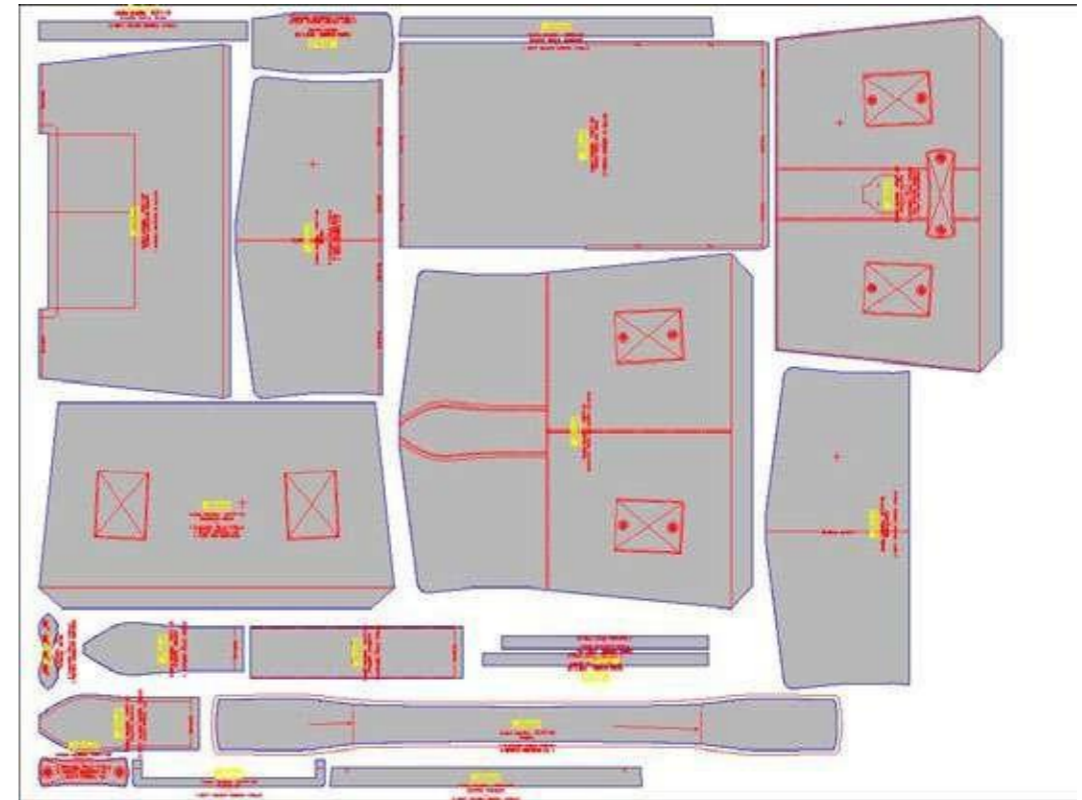
The screenshot displays the Aimpes CAD software interface. On the left, a table lists various materials and their properties. The table has columns for 'Codice', 'Descrizione', 'UM', 'Misura', 'Spessore', 'Prezzo', 'Tipo materiale', 'Codice fornitore', and 'Ra'. The row for 'ART. 05 RIVETTO OVALO' is highlighted. On the right, a 3D model of a metal buckle is shown. Below the model, there are several dropdown menus for 'Gruppi', 'Famiglie', 'Colori', 'Clienti', 'Stagioni', and 'Libero'. At the bottom, there are search and filter options for 'codice', 'descrizione', 'famiglie', 'Misura', and 'mat'.

Codice	Descrizione	UM	Misura	Spessore	Prezzo	Tipo materiale	Codice fornitore	Ra
11344	ART. 1344 FIRALAMPO RETRO BASSA	NR			€ 0.29	Accessorio	3102006115	O E
1007	ART. 07 RIVETTO PICCOLO GOMMA TESTA	NR			€ 0.01	Accessorio	3102005890	MC
1002	ART. 02 RIVETTO OVALO	NR			€ 0.01	Accessorio	3102005200	MC
1003	ART. 03 BOTTONE PRESSIONE C/REC/12	NR			€ 0.04	Accessorio	3102005890	MC
1006	ART. 06 BOTTONE A PRESSIONE PICCOLO	NR			€ 0.50	Accessorio	3102005890	MC
1009	ART. 09 RIVETTO OVALO GAMBIO CORTO	NR			€ 0.03	Accessorio	3102005890	MC
1010	ART. 10 RIVETTO OVALO GAMBIO LUNGO	NR			€ 0.04	Accessorio	3102005890	MC
11092	ART. 1092 CURSORE a METALLO 15	NR			€ 0.09	Accessorio	3102006319	VK
11063	ART. 1063 MOLLA PICCOLA PIASTRA + VITE	NR			€ 0.06	Accessorio	3102005437	FAI
11064	ART. 1064 MOLLA PICCOLA PIASTRA + VITE	NR			€ 0.29	Accessorio	3102005437	FAI
11121	ART. 1121 MOLLA PIASTRA	NR			€ 0.45	Accessorio	3102000019	SA
11192	ART. 1192 FERMA STOP	PA			€ 0.02	Accessorio	3102006319	VK
11212	ART. 12 MOLLA PICCOLA RINFORZATA	NR			€ 0.20	Accessorio	3102005437	FAI
11214	ART. 1214 MOSCHETTONE CM4	NR			€ 1.29	Accessorio	3102005890	MC
11216	ART. 1216 MOSCHETTONE CM 2	NR			€ 0.00	Accessorio	3102005890	MC
11247	ART. 1247 SCORREVOLE 40mm	NR			€ 0.39	Accessorio	3102005890	MC
11260	ART. 1260 BOTTONE A PRESSIONE	NR			€ 1.00	Accessorio	3102000105	CD
11274	ART. 1274 FIBBIA CON ARDIGLIONE	NR			€ 0.70	Accessorio	3102005890	MC
11357	ART. 1357 MOSCHETTONE cm3	NR			€ 0.56	Accessorio	3102006115	O E
11363	ART. 1363 FIBBIA RULLO 40mm	NR			€ 2.80	Accessorio	3102005890	MC
11393	ART. 1393 BOTTONE A PRESSIONE	NR			€ 0.07	Accessorio	3102005890	MC
11406	ART. 1406 ANELLO TONDO BASSA 40mm RE	NR			€ 0.42	Accessorio	3102005890	MC
11408	ART. 1408 ANELLO TONDO BASSA 30mm RE	NR			€ 0.70	Accessorio	3102005890	MC
11418	ART. 1418 BORCHIA CONICA 21mm	NR			€ 0.29	Accessorio	3102004639	AS
11419	ART. 1419 ANELLO D cm 2.5	NR			€ 0.23	Accessorio	3102005890	MC

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)

LA GENERAZIONE DI DISTINTE

Un sistema interamente digitalizzato dove tutte le informazioni sono collegate e salvate in un database, consente di estrarre rapidamente i dati necessari a generare distinte.

È possibile esportare distinte numeriche destinate ad essere usate per l'importazione nei sistemi gestionali esterni o stampare distinte e report grafici in PDF.

Attraverso il tool messo a disposizione è possibile personalizzare forma e contenuti del PDF: formato, carattere, dimensioni e informazioni.

In questo modo è possibile stampare distinte come un elenco dei materiali utilizzati in un modello, liste di istruzioni inserite nelle parti con immagine abbinata, o report spessori come documento destinato all'operatore che si occuperà di effettuare il lavoro.

The screenshot displays the 'Aimpes CAD Report PDF' software interface. The main window is titled 'Report PDF' and shows a configuration panel for generating a report for a specific model. The configuration includes options for 'Logo aziendale', 'Data e ora', and 'Utente'. The 'Titolazione' section allows for selecting a 'Modello singolo' or 'Selezione multipla (lotti)' and defining titles and subtitles. The 'Archivio' and 'Modello' sections are also visible.

The generated report preview shows the following content:

- Report PDF** (TESTO PERSONALIZZABILE FISSO)
- Logo aziendale (PLACEHOLDER)
- ABC-1234
Modello ABC-1234
- Quantità: 1
- Schizzo (Technical drawing of a bag)
- Foto (Photograph of a brown leather bag)
- Stilista: Brand 1
- Modellista: Mario
- Materiali**
- Esterno**

Codice	Descrizione	Quantità	Consumo lordo
PEL-A	PELLE A	2	0,2

- Rinforzo**

Codice	Descrizione	Quantità	Consumo lordo
IN000107	LYLIANE THERMO H143 5/10 MM	1	1,1

- Totali materiali**

Quantità: 3	Consumo lordo: 1,2
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- Aimpes CAD - Modello ABC-1234
- 1 / 1

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

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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.