What customers are saying…

“…SoleMorphing has allowed me to make changes to my models that would have previously required starting from scratch…”

Damiano Favero F.F. Favero SRL, Italy

“ShoeExpress is 100% compatible with our objective - better products in a shorter time frame.”

Alpina, d.d., Ziri, Slovenia

“ShoeExpress has allowed us to significantly reduce our Time to Market…”

PGP d.o.o, Slovenia

About Cimatron

Cimatron is the leading provider of integrated, quoting-to-delivery CAD/CAM solutions for the tooling and manufacturing industry. Cimatron is committed to providing tool makers and NC users with comprehensive, cost-effective solutions that streamline manufacturing cycles, enable collaboration with outside vendors, and ultimately shorten product delivery time. Over 8500 customers worldwide in the automotive, consumer plastics, and electronics industries employ Cimatron's cutting-edge CAD/CAM solutions for manufacturing.

Founded in 1982, Cimatron is publicly traded on the NASDAQ exchange under the symbol CIMT. Cimatron's subsidiaries and extensive distributor network are located in over 35 countries to serve customers worldwide with complete pre- and post-sales support.

Images courtesy of: Antonelli Romeo srl, Italy, Alpina, d.d., Ziri, Slovenia and Mabu's Portugal

For more information, please visit our web site at:

www.cimatron.com

Cimatron
Innovative Solutions for Manufacturing

CimatronE ShoeExpress
End-to-end Footwear Solution - from Design to Production

Specialized CAD/CAM process solution for heel, sole, and insole design and molding

Field-proven by footwear design professionals worldwide

Lowers time to delivery and raises productivity by automating tedious and complex tasks

Enables creation and rapid production of complex and detailed geometry
Bridging the Gap between Design and Manufacturing

In the dynamic world of footwear, efficiency and time-to-market are the keys to success. Fashions change rapidly, and speed and process efficiency are of the essence in getting designs to market.

To turn either physical or computer models into workable molds - ready for production on any scale - you need a solution that bridges the gap between concept and manufacturing. You need a solution that can turn designer inspiration into reality - quickly, cost-effectively, and accurately.

CimatronE ShoeExpress leverages the power of CimatronE CAD/CAM, and years of field-proven experience in the footwear market, to deliver the first end-to-end solution for footwear design and production. CimatronE ShoeExpress enables shoe designers, mold makers and manufacturers to:

- Drastically reduce the time between concept and finished product
- Develop complex soles and heels, while enabling easy on-screen pattern, color, shape and motif alteration
- Guarantee that the final product precisely matches the design model

An Integrated Approach with Powerful Individual Components

CimatronE ShoeExpress integrates powerful Cimatron CAD/CAM functionality with dedicated vertical applications that cover the entire spectrum of heel, sole, model and mold creation. The integrative Cimatron approach to shoemaking enables ShoeExpress to deliver a broad scope of functionality and cover the entire design and manufacturing process. With the right combination of automation and full manual control, both designers and manufacturers work faster and more efficiently, without sacrificing quality.

Powerful Geometry Handling

ShoeExpress includes powerful functions for the acquisition of basic geometry from digitizers, robotic arms, or images. Additionally, the system provides tools for dynamic creation and modification of curves and surfaces. Thanks to Cimatron's parametric environment, model regeneration after incorporating design changes is especially fast and easy. Design modifications and shoe grading are also simplified since ShoeExpress fully supports hybrid models composed of surfaces, solids, STL objects and point clouds.

ShoeExpress Features

The four modules comprising ShoeExpress cover the entire footwear creation process:

**DESIGN**
- Generation of curves and points quickly from digitized data
- Tracing curves over bitmaps, wrapping curves and surfaces to surfaces, unfolding surfaces
- Automatic creation and dynamic modification of side surfaces
- Dynamic generation of under surfaces for anatomic parts, with real time display of the generated model
- Fast and easy creation of geometric entities for sole cut-outs ready for down-stream NC processing
- 3D shoe grading for hybrid models, including scaling of parameters by user-defined zones, fixed area management for logos, insets, and air-bags, and multiple sizes generated by one grading operation

**SOLE MORPHING**
- Allows morphing an existing 3D shoe hybrid model (points, curves, surfaces, solids and STL objects) from one shoe profile to another
- Fixed area management for logos, insets, and air-bags

**HEEL DESIGN**
- Creation of the 3D heel from 2D or 3D curves
- Dynamic modification and management of curves and surfaces
- Table driven control over every 3D grading parameter
- Automatic creation of geometric entities for the heel tip mold ready for down-stream NC processing

**CASTING**
- Automatic identification of curves
- Automatic creation of geometric entities for cover and mold
- Management of several covers for multi-color molds
- Reapplication of process to different models using geometric templates
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