Success with Open CASCADE

GIT

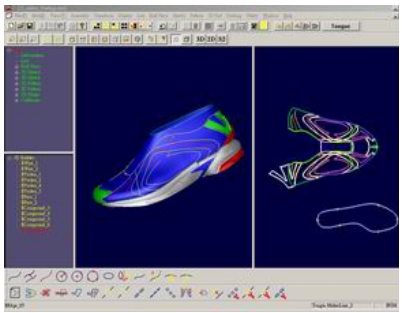
Combining production experience and CAD technology provides fast and accurate approach in shoe industry

"We adopted Open CASCADE Technology many years ago to develop our ShoeMagic Software. Our clients, mold shops and factories of world brands such as Adidas, Nike and Reebok, apply high demands towards the software we supply. Therefore we closely work with Open CASCADE Helpdesk team that supports our development with fast and efficient expert guidelines. It takes just a few hours to receive a thorough professional reply, with detailed explanations and recommendations. It's just great!"

Joe Lee,

Assistant Vice President,

General Integration Technology



MISSION

- *Create an application for shoe design process incorporating 2D/3D modeling with parametric design capabilities.*

SOLUTION

- *Development of ShoeMagic software, an innovative CAD/CAM system for shoe industry. A 2D/3D cooperation environment is based on Open CASCADE Technology, by combining experience of the industry specialists and technology of CAD. It provides a fast, easy, accurate approach in shoe industry.*

RESULTS

- *Reduction of costs thanks to Open CASACDE Public License and open source.*
- *Substantially higher productivity due to Open CASCADE prompt helpdesk support.*
- *ShoeMagic Upper is ideal software for 3d/2d shoe design. Its early versions were created as long ago as when Open CASCADE was delivered as a proprietary CAS.CADE kernel.*

FACT FILE

General Integration Technology

- GIT (General Integration Technology Co., Ltd.) is a leading developer of Integrated Process & Software for the Shoe industry, founded in 1991, with its headquarters in Tai-Chung, a famous shoe city of Taiwan. GIT provides dedicated professional solutions like: ShoeMagic-sole, MorphMagic, MoldMagic and ShoeMagic-Upper that streamline the shoe design process, and significantly shorten shoes product development time.
- GIT's solutions enable users to meet today's challenging development cycle of the shoe product. The company has more than 50 customers now in shoe industry distributed in Asia, Europe and USA.
- GIT provides a digital enterprise solution including digital design, scanning, rapid prototyping, rapid tooling, and digital manufacturing.

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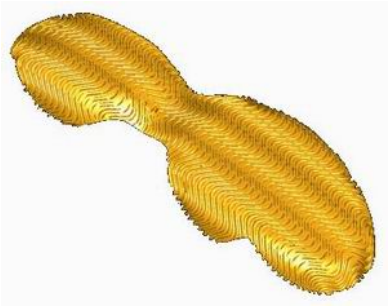
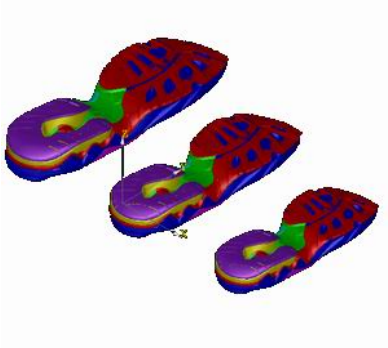
MORE ABOUT THE PROJECT



Developed on the basis of Open CASCADE Technology, ShoeMagic-Upper is a parametric system that records your process information in a tree structure. This structure gives a benefit for parametric design change, and is a fundamental for the product data management. With these features, you can replace a last, modify sketch lines etc. After you finish the designing pattern the result (patterns) is automatically updated.

Last



ShoeMagic-Upper provides tools for last modification and grading, its industrial standard interface allows outputting a last for NC milling.

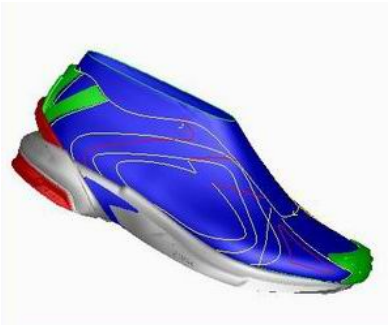
3D Design

After flattening the last, the user can directly design a 3D last or a 2D half piece. A modification of the 3D view will automatically and simultaneously modify the 2D one and vice versa. Convenient sketch functions are made for users who have no CAD experience.

Pattern Engineering

Pattern engineering is difficult for shoes that have thicker and different thickness patterns (like sport shoes). ShoeMagic-Upper provides different thickness for each pattern - this feature helps to ensure the accurateness of engineering design. Thanks to ShoeMagic-Upper parametric structure, even if your pattern engineering has completely finished, you can still easily change the design, i.e. change a last, readjust a half piece, modify sketch lines etc. The patterns will be automatically changed.

Grading



Today the sole and the upper are designed together like a single whole. But in the traditional process, the last has one grading rule, the upper has another one and the sole has still another one. This leads to a gap between each manufacturing step of the last, the upper and the sole. And it causes difficulties in production. ShoeMagic-Upper provides a special grading function “All in one 3D grading”. The 2D Patterns, 3D components, the sole and the 3D last are graded with the same rule – “Last grading rule” – that makes production significantly faster and easier.

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