# PROCAM™
software ▪ systems ▪ services

## Computer Aided Design

### Dimensions!

# Technologies for Your Business Success

The international footwear industry is undergoing dynamic changes in the marketplace. Global competition, growing quality demands, and cost pressure – enterprises will need to be flexible to cope with these challenges.

The importance of reacting faster to customer needs and to changing markets is greater than ever. In order to meet these challenges, the industry is in need of the most effective solutions to increase quality and productivity.

**The key to success will be better information and knowledge management during the product development process.**

With more than 25 years of experience, Procam is a leading supplier of integrated CAD/CAM/MIS and PLM software solutions.

The brand-new suite of products available today provide:

- better management of the product development process as a whole
- better management of the data and knowledge associated with this process
- concurrent collaboration among all teams involved in this process

Procam`s latest technologies can help achieve a significant reduction in time to market and create a competitive advantage.

## DIMENSIONS!™ – a product outline

DIMENSIONS!™ is a Computer Aided Design System based on Microsoft™ technology that was developed in cooperation with users, customers, and industry advisers to address the requirements of the leather manufacturing industry. Our team's more than 25 years of collective experience in the development of human-centered software solutions are concentrated in DIMENSIONS!™. The system can be operated as a stand-alone solution, or be integrated in an IT network, built on an off-the-shelf DB server.

DIMENSIONS!™ is the foundation of Procam's software solutions for integrated product development. The CAD data and information contained within DIMENSIONS!™ are the basis for all further enterprise processes, such as cost calculation, material allocation, cutting, product data management, production planning, etc.

Because of this, future-oriented technologies and open standards were a basic requirement during development.

## User Advantages

### Reduced Development Periods

DIMENSIONS!™ supports the virtual and digital creation process. Designer's sketches from any off-the-shelf third party systems are imported into DIMENSIONS!™ to virtually create new designs. Powerful 3D Design Features allow fast building of new designs; import of standard 3D Data formats help to attach soles, heels and 3D objects to the newly created design; export for 3D printing is available in STL format; ray tracing features that result in high quality, photorealistic output round out this powerful design tool.

From the engineering point of view, DIMENSIONS!™ enables the user to create new models on existing lasts (3D), or copies of lasts (2D). This not only saves time, but also increases quality by using existing last material in the new design. Thus exact reproduction of the shafts can be guaranteed. Alternatively, the basic model can also be input manually using a digitizer.

DIMENSIONS!™ offers an almost unlimited number of possible workflows for designing shoes, such as development, specification, and grading functions. Optimization of allowances and special grading rules provide for economies in tools and material during production.

Any modifications of individual shoe patterns are automatically transmitted by DIMENSIONS!™ to the complete model and are immediately available in all desired sizes. This means that there is no need for manual redesign.

# Dimensions!™ Key Features

- Pattern Engineering System (CAD)
- Full 2D and 3D CAD integration
- 2D technical tool (engineering, grading, etc.)
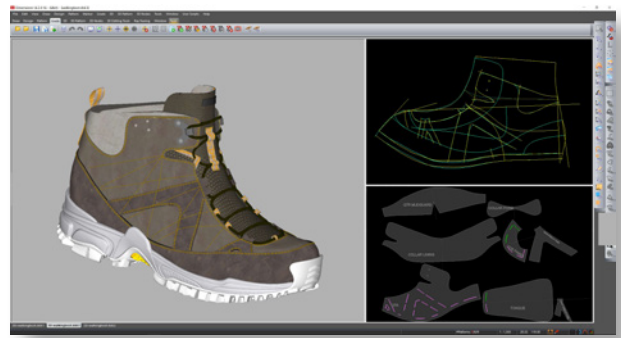- 3D virtual design tool (communication tool)

The most frequently required shoe patterns are stored in special DIMENSIONS!™ libraries and are available on demand. The patterns can be copied for any new models, so they constitute the basis for new designs. User-specific standard settings (defaults) can be stored, thus providing for technical generation of new models in record time.



## Individual Working Routines

DIMENSIONS!™ graphical user interface (GUI) enables the CAD user to work in a clear, organized manner, with individual, user-specific settings (defaults) and stored menu commands, icons, colors, explanations, etc. There is no longer any need to learn complex system structures. Training is reduced to a minimum. DIMENSIONS!™ users can achieve higher productivity in the enterprise much faster.

CAD experts recognize integrated programming functions based on Microsoft™ VB, which are easy to understand and apply, allowing setup of reusable elements and full automation of routine work.

Flexible language solutions enable every user to work in his native language. Different language solutions can be combined.

## Interactive 2D/3D Operation

"Real time manufacturing" support of 2D/3D in DIMENSIONS!™ provides total control in the design and construction of the models. Since only one single set of data is processed, DIMENSIONS!™ ensures complete data consistency and avoids redundancy.

If required, models can be visualized interactively in three dimensions during design. Any optional material, material thickness, etc. can be selected. High quality 3D ray tracing images are provided for immediate use of a true "virtual designed product" to be used in sales and marketing.

Graphic visualization on the Internet in VRML-format (Virtual Reality Modeling Language) has already been implemented as standard.

## Database Connectivity

DIMENSIONS!™ can store CAD data locally (on the respective workstation) as well as in existing databases in the enterprise that are specifically designed for this individual enterprise. This new product philosophy has resulted in unrivalled integration capacity within almost every organization.

- Third party integration (Adobe, Excel, etc.)
- Database Interfaces (Oracle®, MS-SQL®)
- Communication based on standard http
- Ray Tracing

Downtime is avoided by promptly updating data files. The multitude of different data existing within an enterprise is reduced to only a few centrally organized components. The desired data is available to all the staff members at all times, in the latest version, thus providing a seamless connection to other enterprise systems (PPS, reporting, and so on).
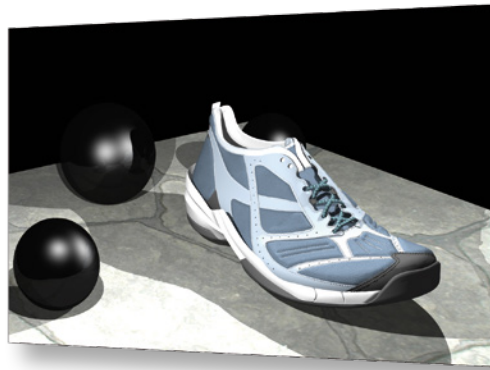
The database product SQL™-Server from Microsoft™, as well as third-party solutions such as Oracle®, SAP® etc., can also be applied. This enables worldwide service and supplier independence and ensures that an investment in your CAD-system is secure.

Procam offers these databases, especially designed for the footwear industry, as a special service to their customers.

## Integration

The Microsoft™ industry standard guarantees high flexibility, because the DIMENSIONS!™ data can also be used within any other Windows™-based products (e.g. office applications, graphics programs, electronic mail, etc).

Output into other different formats (e.g. DXF, HPGL, etc.) as well as further use of data (e.g., for 3D printing, plotting, etc.) are implemented as standard and are supported by DIMENSIONS!™; thus, seamless integration in every working process has been realized.



DIMENSIONS!™ is already well prepared for future challenges, such as multimedia, wireless communication, etc.

The Internet compatibility of DIMENSIONS!™ provides direct interaction between the user and Procam through the Internet.

DIMENSIONS! ™ is a state-of-the-art application, with guaranteed support for multitasking while simultaneously operating at high speeds. Thus future-oriented technologies and open IT standards were the basic prerequisites for this development.

# Services

Procam offers service and technical support in more than 35 countries worldwide. In order to organize world-wide services, a reliable network of dealers and service agents has been established over the years. Today, Procam services one of the largest maintenance customer bases in the industry.

PROCAM software solutions are continuously being optimized in order to grow in line with customers' demands for ergonomics and integration capacity. To comply with current and future technology - and to increase the security of investment in Procam solutions - new software versions are released every six months in average.

Although Procam`s software solutions are easy to learn, as they always comply with the latest technology standards and ergonomics, training is essential in order to optimize usage. Well informed users` productivity will be higher, resulting in better output and flexibility in change situations.

A wide variety of related services are offered:

- Service Contracts
- Software Upgrades
- Customization
- Database Design
- Technology Coaching
- Process Consulting
- Project Management
- Installation & Supply
- User Training

**PROCAM**™
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