

By Dora Laine

# OMS Increases Power

OMS manufactures lighting fixtures for interior and exterior lighting needs. It uses CATIA and ENOVIA SmarTeam for its design and manufacturing requirements as well as for managing its development processes and product data.

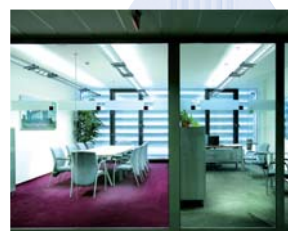
OMS first based its business on buying standard components and assembling them by hand. Due, though, to increasing customer requests for specialized lighting, OMS later decided to invest in an in-house design and styling office to create its own light fixtures. Its development process begins by collecting customer requirements whether this relates to developing new lighting fixtures or designing fixtures based on special customer modifications of existing types. These requirements are carefully analyzed and detailed by the Design Department in cooperation with the Technology Department, which is responsible for preparing the technological processes for production in series. Once a project is defined, specification and design documentation is created and prototypes are manufactured.

Testing and testing measurements (photometric characteristics, thermal and electrical tests) are performed on prototypes and modifications, if needed, are made to the initial design. OMS engineers in the Technology Department then prepare technical documentation, required to manufacture a test series. Finally, the finished products and their specifications are made available to the public via its website and its product catalogue.

### CATIA ROBUSTNESS AND CUSTOMIZED SUPPORT

OMS started out by using a 2D CAD system but after creating the design department, chose the path of 3D in 2002 with CATIA. As business grew, so did their design department and the number of CATIA seats. Today, the Design and Technology departments

have six CATIA seats for mechanical and sheet metal design. OMS also uses CATIA Photo Studio capabilities to create photo-realistic images for its product catalogues. "We needed a robust and efficient solution so that our Design Department can be more reactive as well as a strong partner that could provide us with professional and tailored support," said Peter Svoboda, R&D Director. Dytron, Dassault Systèmes' Value Added



Reseller in Slovakia, was instrumental in the implementation of CATIA at OMS. It provided training and participated in the analysis of day to day design tasks and proposed procedures that would simplify OMS' design process. Dytron proposed a comprehensive solution that would cover OMS requirements and gradually implemented the solution, in cooperation with OMS, through pilot projects.

### ENOVIA COLLABORATION ACROSS THE ENTERPRISE

In addition to its design activities, OMS needed to manage its product data and in 2006 chose ENOVIA SmarTeam to manage information and workflow between employees and the different departments at their main site. Peter Svoboda explains, "We use Component Management to communicate with our external suppliers and the Workflow module to monitor and archive processes that are related to the development of new products as well as to engineering changes." All end users have access to up to date data and everyone is sure to access the right information. This has led to real time collaboration between users on the same CATIA model. Construction, technology and business personnel can evaluate, in a simple manner, the status of any particular project without having to personally contact the people responsible for each phase of a project. Here again, Dytron assisted OMS in a phased implementation of ENOVIA SmarTeam beginning with the implementation of all functionalities linked to PDM.



### INCREASED PRODUCTIVITY AND COSTS REDUCED

OMS soon reaped the benefits of their transition to CATIA and ENOVIA SmarTeam. For example, using Workflow Manager to supervise maintenance operations and Flowchart Designer to define processes in flowchart format has helped OMS reengineer their key processes. OMS has also simplified the management of individual projects and work orders in the pre-manufacturing stages. Its efficiency has increased since useless communication channels have been eliminated making it possible for it to work on more projects than before. OMS has also become more flexible when responding to market requirements and to specific customer modifications. It has been able to reduce routine work operations thanks to automatic procedures and design re-use. For example, even though individual types of lighting are produced with different power variations, their construction is not different. Power variants are not modeled individually; they are generated from the same basic model.

The ability for OMS engineers to access all necessary information across the different departments has significantly reduced costs and increased productivity. Errors have been reduced and communication with external suppliers has been simplified and become transparent.

In the coming months, OMS is planning to connect ENOVIA SmarTeam to the company's ERP system for manufacturing and system planning thereby completing the flow of information within the company. This means, for example, being able to export a part list created by the R&D department to the ERP system. It also plans to implement workflow management of the design and manufacturing processes within the company. ]

**For more information:**  
www.dytron.sk

**More about OMS**  
OMS, a privately owned Slovak company, is the largest producer of lighting fixtures in Central and Eastern Europe. Founded in 1992, its products range from interior lighting for offices, hotels, restaurants, residential areas, warehouses, hospitals, and banks to exterior lighting used in parking lots, highways, football stadiums, billboards, as well as historical monuments. In addition to its vast product line, OMS also boasts a team of specialized technicians, the latest in technology and a dedicated R&D center providing customers with the best in lighting products. OMS' customer policy is to deliver top quality products to its customers quickly at attractive prices.  
www.oms.sk