

# Arburg

Facilitating collaboration and reducing costs with CATIA, ENOVIA, and 3DVIA Composer



## Overview

### Challenge

*Leading injection molding machine manufacturer Arburg needed to bring its products to market faster, while increasing quality and lowering costs*

### Solution

*Arburg deployed a unified PLM strategy based on CATIA, ENOVIA and 3DVIA Composer for virtual product design, collaboration and technical documentation creation*

### Benefits

*Arburg has increased understanding among development teams using CATIA, improved collaboration through the common ENOVIA database, and saved time by using 3DVIA Composer to create technical documentation based on CATIA designs.*



*"Thanks to our digital mock-up approach, design engineers need to make fewer physical prototypes and can verify, at minimal cost, whether special customer requests are feasible."*

Andreas Dümmeler  
Director Information Systems  
Arburg



### Leading injection molding machine manufacturer

Arburg is one of the world's leading manufacturers of injection molding machines. The machine and plant manufacturer, located in Lossburg, in the Black Forest region, employs over 2000 people. Arburg's product portfolio includes *Allrounder* injection molding machines with clamping force from 125 to 5,000 kilonewtons (kN), *Multilift* robotic systems, complex automation solutions and a range of peripherals. Arburg chose Dassault Systèmes solutions 15 years ago and today relies on CATIA, ENOVIA, and 3DVIA Composer for its product development needs.

### Standardizing IT to secure tomorrow

Arburg's product range and the modular design of its machines place high demands on IT services. Under the motto "securing the future with process optimization using standard IT solutions" CIO Andreas Dümmeler and his 60-person IT team work

closely with the operations departments to radically rethink the company's IT infrastructure. For example, Dümmeler advocates standardization to help the company meet extremely short delivery deadlines. His goal to build a process-oriented IT infrastructure with virtual product management has dramatically improved time to market and increased development-to-delivery speed two-fold. In the area of application integration, the company primarily focused on implementing configuration management based on a unified data management.

### Virtual product development with CATIA and ENOVIA

Right from the very first development step, Arburg engineers use CATIA to construct their machines virtually. The system stores every revision precisely. The interfaces between CAD/CAM information and the procurement and ordering system ensure a 3D view of every Arburg-developed component. In addition, designers



and design engineers can simulate all production steps, from design to final machine, and display a 360-degree view of their models. "Thanks to our digital mock-up approach, design engineers need to make fewer physical prototypes and can verify, at minimal cost, whether special customer requests are feasible," said Dümmler.

ENOVIA compiles the information so that anyone in the company involved in a particular project can use the same resource and process data and communicate in 3D. "Three-dimensional images are more understandable than any list or tree structure, significantly facilitating collaboration between all parties," said Dümmler.

#### Creating product documentation faster

For technical documentation, Arburg uses 3DVIA Composer. "We generate the technical documentation directly from the

CATIA files using 3DVIA Composer, which saves us a lot of time," said Klaus Mayer, Head of the CAD/CAM Development department. In addition to three-dimensional repair instructions, 3DVIA Composer also automatically generates spare-parts lists that customers can access for on-line ordering.

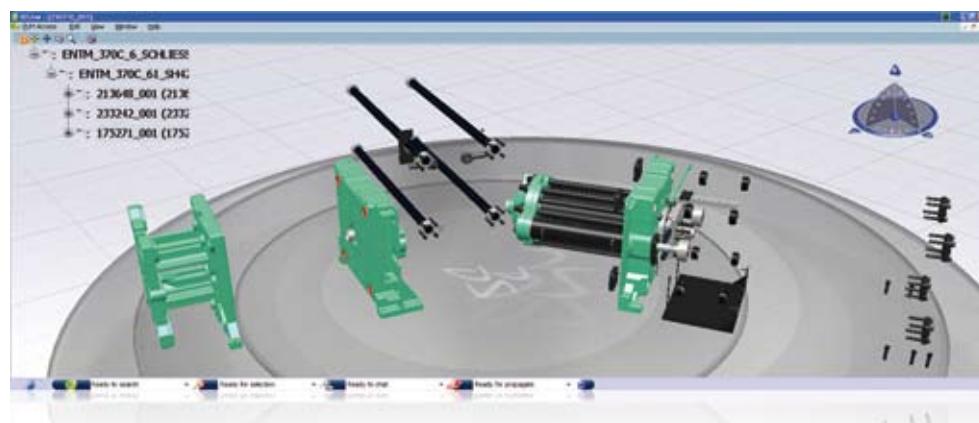
#### High expectations of V6

Arburg's investment in virtual product development is paying off. Because its PLM solutions help the company design and manufacture faster than the competition, Dümmler looks forward to working with Dassault Systèmes' new version 6 (V6) offering and to furthering the relationship Arburg has established with Dassault Systèmes. "We need a partner who will protect our investment and help us move forward over the long term because they know how designers work," said Dümmler.



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Klaus Mayer  
Department Manager CAD/CAM  
Development Arburg



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