

# List Components & Furniture GmbH

Responding to client needs faster with CATIA V5 and Intel processors



## Overview

### ■ Challenge

List Components & Furniture GmbH designs and produces custom luxury interiors based on client specifications that may change at the last minute and must be implemented rapidly.

### ■ Solution

The process-oriented solution based on CATIA V5 and its integrated NC module provides a consistent model that starts with the client's requirements and extends all the way to the production data.

### ■ Benefits

List Components & Furniture GmbH has reduced development times, makes changes quickly, and avoids the production of incorrect parts.



"The advantage in using a PLM solution based on CATIA V5 and Intel Xeon Processors is that all parties involved in the development process work with the same data. This accelerates project execution and makes it possible to incorporate changes late in the process."

Bernhard Strobl, IT-Manager,  
List Components & Furniture GmbH



### Customized equipment for business jets

What do the luxury private yacht Lady Lola, the Austrian Cultural Institute in New York and the Bombardier Learjet 45 XR have in common? Their interior furnishings have all been manufactured by the Austrian-based List group.

List Components & Furniture GmbH is synonymous with high quality performance in process-oriented production management. Evolving from cabinet making to the design of specialized interior furnishings, the company uses the synergies between man and furniture efficiently. This results in 'intelligent components and furniture' that are not only decorative, but that serve a purpose for the client. The 270-employee company provides furnishings for various uses such as business jets whose luxurious interiors often vary from one jet to another.

### Using OEM CATIA V5 data

Since 2005, List has been using CATIA V5, Dassault Systèmes' collaborative solution for virtual 3D product definition. With CATIA V5 being the industry standard for 3D aircraft design, the List team receives the aircraft structure from the client as a 3D CATIA V5 data model. From this, they design custom layouts such as kitchens. The digital mock-up is then sent to the client for approval. This process satisfies the OEM's objective to receive, from all its suppliers, parts as digital models so that they may be fitted in a virtual environment with other components.

Once approved by the client, the List design team sends the model with the related assembly groups and data to the production department. The latter enters the necessary processes for the manufacturing phase such as milling, drilling and cutting into the NC module and then begins production.



“As suppliers of major OEMs, it is essential for us to increase and optimize the level of collaboration with our clients throughout the entire value chain. By aligning our working methods and tools with those of our clients, we reduce costs and development cycle times while increasing the precision of our designs,” said Bernhard Strobl, IT manager, List Components & Furniture GmbH.

### **Incorporating changes**

List decided to deploy the CATIA V5 NC module and the 5-Axis Simultaneous Post Processor because they were instrumental in speeding up the entire process and eliminating problems linked to incorporating a client’s changes.

The CATIA V5 NC module covers the entire machining sequence from roughing to finishing. Through the integrated simulation of material removal and the visualization of remaining material, process safety increases and machining costs are reduced. List considers it essential to have a high degree of integration and interoperability between product development and the production process so that last-minute changes can be supported in an efficient manner.

“By virtually simulating the production of the product during the early stages of the design phase, we are able to verify the manufacturability of our designs. In this way, we can ensure that a part is production-ready, and at the same time, eliminate costly change orders,” said Bernhard Strobl.

### **A unique PLM solution following a 3D Master approach**

The main advantages for List are shortened development times and the consistency provided by the PLM solutions. Development time has been shortened because List engineers no longer need to create 2D drawings for the manufacturing process. Moreover, there is no need to transfer design data from CATIA V5 to another NC programming system. Through its unique database, changes of already programmed processes are displayed in the NC module thus reducing sources of error.

Another benefit is that throughout the product development process, the work is done using the same CATIA V5 data. It is, therefore, possible to take into account, relatively late in the project, changes due to last-minute client requests. They are quickly and easily incorporated into the design and are sent to production with all the related information.

## **Intel and DS collaboration**

At List Components & Furniture GmbH, CATIA V5 runs on workstations equipped with Intel® Pentium® 4 and Xeon® Processors. List management demands reliability and minimum workstation downtime. The stability of Intel® Pentium® 4 and Xeon® processors provides List with the robustness it requires.

Ten years ago, Intel and Dassault Systèmes formed a partnership to deliver best-in-class PLM Solutions on Intel® -based technology. Since then, both companies have implemented numerous R&D projects based on the Intel infrastructure. Today, customers benefit from cutting-edge V5 PLM solutions turning on workstations equipped with Intel’s industry-leading high speed, reliable processors.



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Ref. RF\_Y\_DGC2V\_EN\_200702

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**The List website can be found at [www.list.at](http://www.list.at)**

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