

Evosys Laser GmbH: Maximum efficiency in high-end laser machine construction

Consistent processes thanks to perfect integration of CAD, PDM and ERP



Customer

Evosys Laser GmbH
Felix-Klein-Straße 75
D-91058 Erlangen
Tel.: +49 9131 81497 0
info@evosys-laser.com
www.evosys-group.com

Products

Solid Edge 3D CAD
PDM Studio
Ulysses ERP

Evosys Laser GmbH is an expert in an innovative and established joining process in the industrial manufacturing industry: laser plastic welding. But not only with its laser machines everything went as desired - the medium-sized company from Erlangen in Germany was able to implement end-to-end digital processes from design through production to purchasing with the help of the system house Solid System Team GmbH (SST).

Evosys has been developing and manufacturing tailor-made laser systems for material processing, such as laser plastic welding, laser soldering and micrometallic welding, since 2015. The mechanical engineering company primarily offers companies from the automotive, medical technology and consumer sectors creative solutions for demanding machining tasks, especially laser plastic welding. Due to its advantages - high

precision, locally easily metered energy input and cleanliness - this tool has secured a permanent place in production, not least because it connects plastic parts with one another in a reliable and process-safe manner.

Evosys also wanted reliability and security for its own company processes. The goal right from the start should be a continuous, holistic solution consisting of CAD, PDM/PLM and ERP software. Shortly after it was founded, Evosys acquired an integrated CAD and PDM system at the same time as the first workstation and relied on the know-how of Solid System Team GmbH. „I already worked very well with SST at my previous employer,” says Andreas Kraus, Operations Manager at Evosys. The positive experience as well as the comprehensive support were decisive for getting involved again with the SST as a long-term partner. „Our recipe for success is the holistic approach that goes far beyond the sale of software licenses. With the combination of process-oriented consulting, tailor-made software integration, data migration as well as support and maintenance services during operation, we as a system house can offer our customers holistic support,” says Tim Dornbusch, Head of Key Account Management at SST.

After the basic potential analysis, a solution consisting of the 3D CAD Solid Edge and the product data management software PDM Studio was integrated at Evosys. Andreas Kraus, who has been relying on the solution partner SST for 19 years, summarizes the advantages of the solution: „With Solid Edge and PDM Studio, the designer is given a comprehensive tool to successfully implement the construction of customer-specific and standardized solutions.“ In Solid Edge, which offers a complete 3D product development portfolio,

the Evosys design team can implement both stand-alone machines and fully interlinked special solutions for laser material processing. A special highlight of Solid Edge is the combination of sequential modeling with so-called synchronous technology. This unique technology combines the speed and simplicity of direct modeling with the flexibility and control capabilities of parametric design, making it ideal for Evosys' modern product design. However, the software used in construction today has an impact on processes far beyond the boundaries of the department. This was also evident in this project: components and assemblies are of enormous importance not only in production, but also in purchasing and technical editing. Because in these and other departments, the design data and their meta information must also be available and processed in various formats such as parts lists or interactive PDFs in the appropriate versioning and with the current status.

„With Solid Edge and PDM Studio, the designer is given a comprehensive tool to successfully implement the construction of customer-specific and standardized solutions.“

Andreas Kraus
Manager Operations
Evosys Laser GmbH

„If we had simply stored our data - as it is still the case with many companies - in a directory structure on the server, we would certainly have quickly reached our limits and would have lost a lot of efficiency,” says Andreas Kraus. For this reason, the laser machine provider opted directly for PDM Studio: This enables the comprehensive design data of the laser machines to be managed company-wide in a structured manner and make it available to all departments and employees as they need



„Thanks to the consistency of the individual software systems, Evosys was open to all options for efficient product development right from the start.“

Tim Dornbusch
Head of Key Account Management
Solid System Team GmbH

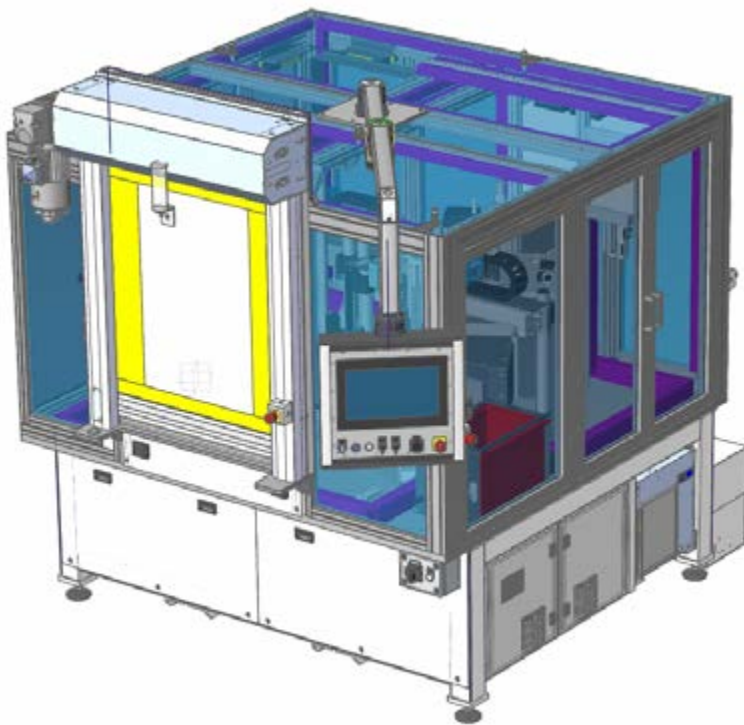
it for their work. This is made possible by the integration in Solid Edge and interfaces to more than 130 other applications and data sources (e.g. ERP, MS Office). This not only prevents redundant data. Evosys also benefits from the fact that different versions and the status of components are clearly visible, thus eliminating incorrect production or wrong technical documentation. The PDM Studio function of automating recurring processes provides a particular boost in efficiency: the so-called converter server allows properties such as part numbers to be

automatically filled, the provision of neutral formats such as PDF, Step or DXF or the time-controlled provision of data. Thus, Evosys can save time, reduce manual routine tasks and increase quality.

In 2018, the introduction of an ERP system rounded off the holistic solution and increased efficiency enormously. Before that, Evosys worked with an Excel-based solution. The manual handling of the data was often error-prone and, due to the increasing amount of data, no longer manageable after a while. With Ulyses ERP, which is specially designed for medium-sized manufacturing companies such as Evosys, all other company-relevant data can now be mapped consistently. Employees can even access the ERP system from their home office without any problems. They particularly appreciate the clarity, because many columns and criteria can be flexibly shown and hidden. In this way you can adapt the program to your individual needs and do not lose track of things. Ulyses ERP is based on the functions of operations management, inventory management as well as document and project management. A direct connection to the PDM solution and the integration of the CAD system are essential for the transfer of parts lists, article management and change management. Flexible interfaces make it easier to export or transfer data to other systems.

„Our stringent CAD / PDM / ERP solution was certainly an important component in coping with the agile business development shown over the past five years.“

Andreas Kraus
Manager Operations
Evosys Laser GmbH



„Thanks to the consistency of the individual software systems, Evosys was able to use all options for efficient product development right from the start,“ reports Tim Dornbusch. „The interfaces between Solid Edge, PDM Studio and Ulysses ERP enable Evosys employees to use and process uniform data from CAD to PDM to ERP for their department.“ The intelligent interlinking of these solutions gives Evosys the flexibility to respond quickly to market changes to be able to react, and thus promotes sustainable success, as Andreas Kraus confirms: „Our stringent CAD / PDM / ERP solution was certainly an important component in coping with the agile business development shown over the past five years.“

But with the integration of the three systems into the infrastructure and the subsequent introductory training, Evosys and SST’s common path was far from over. Since then, the system house has taken on the maintenance of the software solutions used and supports the employees in day-to-day operations by means of a hotline and other support services. „The Solid System Team is available to answer questions about Solid Edge, PDM Studio and the connection of Ulysses ERP. With the help desk or ticket system, problems are dealt with promptly and in a targeted manner,“ says Andreas Kraus happily. „This is how a long-term partnership is a pleasure.“

„This is how a long-term partnership is a pleasure.“

Andreas Kraus
Manager Operations
Evosys Laser GmbH

