

USK Karl Utz Sondermaschinen

Efficient collaborative design management with ENOVIA SmarTeam



Overview

■ Challenge

As a renowned manufacturer of sophisticated, build-to-order industrial facilities, USK Karl Utz Sondermaschinen needs to manage hundreds of thousands of 2D and 3D design files, in an efficient, structured and reliable manner

■ Solution

In order to "future-proof" their solution should they need to manage designs created in multiple CAD systems, USK selected ENOVIA SmarTeam for its system featuring exceptionally strong multi-CAD capabilities.

■ Benefits

Using ENOVIA SmarTeam, designers from USK have access at all times to the latest status and versions of all design data. The resulting transparency facilitates structured collaboration between all users.

Specialty machines require well managed parts

Karl Utz Sondermaschinen GmbH (USK) is an all-German success story. In 1990, Karl Utz, a Swabian entrepreneur, invested his capital in a young, motivated and performance-oriented engineering team from the Saxon town of Chemnitz. The newly-founded firm quickly evolved into a renowned specialist in the construction and production of specialty machines, as well as of industrial facilities for assembly, handling and inspection systems.

Recently, USK, with its 225 employees, has penetrated the global market. The company produced complete assembly facilities for manufacturing diesel technology components worth more 16 million euros for Siemens VDO North America. Each overall USK assembly unit incorporates more than 250,000 parts. Moreover, the built-to-order machines, individually made for each customer, are absolute originals.

An important challenge for USK is to efficiently manage this enormous range of parts, many of which are being jointly developed with external constructors. USK realized that in these circumstances they need a high-performance system for product data management (PDM), a system that would manage clearly defined product design structures and organize and control collaboration between designers in a strict and transparent manner.

ENOVIA SmarTeam – rapid deployment with SmarTeam Design Express

When selecting its PDM system, USK took into consideration that customers would require the deployment of various design applications. USK therefore selected ENOVIA SmarTeam from Dassault Systèmes for its superior multi-CAD-capability. Through an existing interface, ENOVIA SmarTeam at USK was easily integrated with its CAD and Microsoft



"ENOVIA SmarTeam has made it possible to ensure consistent, problem-free design management."

Dr. Thilo Richter, Technical Manager,
USK Karl Utz Sondermaschinen



Office work stations. In the future, USK will be able to easily and smoothly add integrations to other CAD applications as needed.

Using the streamlined, pre-configured approach taken by ENOVIA SmarTeam that is now known as SmarTeam Design Express, USK was able to initially deploy the software as a simple design management project within just a few days. Thanks to ENOVIA SmarTeam's enormous flexibility, USK was later able to expand the system to a far more complex product data management system. In the second phase, USK moved to a three-stage design allocation process tailored exactly to its requirements.

Constant access to the latest designs

By using ENOVIA SmarTeam, USK manages all its designs in a correct and appropriate manner. The designers save a great deal of time when searching for parts and related data and documents. Designers collaborate on clearly defined items and reference structures, while operators always

have access to the latest version of each model. When designers change any given part, the SmarTeam database enables them to identify and test all other machines into which the part fits to immediately incorporate the changes as required. USK now heads into its development processes confident in the fact that only the latest version of a design will be released. All other versions are clearly identified with a blocking note, ensuring that they will not be mistakenly distributed.

The ENOVIA SmarTeam implementation at USK incorporates numerous automated functionalities, such as automated plotter management. At each stage of the allocation process, ENOVIA SmarTeam automatically creates a print file, as well as a long-term archive for all allocated designs.

Although no concrete plans for the next steps at USK have been made yet, the ENOVIA SmarTeam system can in the future be linked to USK's production planning system (PPS) so that master data and parts lists can be easily transferred, preventing errors and data redundancy.

“ENOVIA SmarTeam can be implemented for basic drawing management within a few days, yet, thanks to its flexibility, can later be customized to become a complex product data management solution.”

Dr. Thilo Richter, Head of Engineering,
USK Karl Utz Sondermaschinen



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Ref: RF_QHDEQ_EN_200702

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