

Liebherr-Mischtechnik enhances E3.series with full-service component database hosting and saves time in development

E3.series is a design software from Zuken for electrical and fluid engineering. The company ECAD-Port provides a platform for high-quality and low-cost E3.series components in the form of a 3D component database, which not only contains all components, but also any information needed about these components to create a circuit diagram.



Liebherr-Mischtechnik GmbH develops and produces innovative mixing plants, truck mixers and concrete pumps for the concrete industry. At its factory in Bad Schussenried in southern Germany, Liebherr-Mischtechnik operates its own test engineering center with concrete laboratory, where all processes and machines are thoroughly tested and examined. With this method, Liebherr-Mischtechnik is a pioneer in the field of concrete technology. For the development of its mobile and stationary plants, the company uses E3.series from Zuken. The installation of E3.series was completed about a year ago with the comprehensive database service from ECAD-Port GmbH.

Switching to the intelligent database service of ECAD-Port GmbH

Prior to the implementation of the database service, the ECAD department worked with logically oriented schematics without intelligence and database. Design data was scattered across multiple schematics, making the complexity of developing custom mixing equipment difficult to manage.

"Thanks to the new ECAD database service, we now have absolutely clean master schematics that are under restrictive revision management. A master schematic exists for one type of equipment, which is applied to a customer system. We have concentrated competence and know-how in one overall document," says Mario Gaissmaier, developer in the electrical design department at Liebherr-Mischtechnik GmbH.

All cross-sectional activities of the various specialist departments, such as PLC assignment, all cable lists and the control cabinet layout are integrated in a master schematic. The product data of each customer-specific development project is thus consolidated in a central E3.series document. This noticeably reduces complexity and ensures document quality over periods of 20 years and more.

Joint development of solutions with fast updates

The engineering team at Liebherr-Mischtechnik particularly appreciates the efficient, personal and highly flexible cooperation with the database service provider ECAD-PORT. The support with competence not only in ECAD, but also with practical expertise in electrical and mechanical engineering can conduct discussions with product development at eye level and thus contribute to solution proposals and implementation in E3.series.

In a current development project, a prototype was created in 3D for a control cabinet layout for the first time. Occurring design problems could be discussed in a short web meeting with the customer support of ECAD-Port and solved with a promptly delivered update of the component data. By finding and fixing the error so quickly, significant time was saved in prototype development.

"The company ECAD-Port GmbH has found a niche in the market. It impresses with quality and performance with an absolutely justified price-performance ratio. There is no competition at this level," says Mario Gaissmaier about the cooperation.