SUCCESS STORY

WOODWORKING MACHINERY MANUFACTURER USES WSCAD

WSCAD
ELECTRICAL ENGINEERING

At a glance:

Customer

- Ledinek Engineering d.o.o, Hoče -Slovenia
- Global family business for woodworking machines with roots dating back to 1907

Situation

- Rising demands of clients
- Larger customers have developed their own standards, which projects must adapt to
- Ledinek takes care of the entire project from design to assembly

Software/hardware used

- Electrical CAD Software from WSCAD with the Electrical Engineering and Cabinet Engineering Modules

Benefit

- Ledinek is working with WSCAD Software since 25 years
- Uses the software for electrical schematics and electrical cabinet design
- Schematics account for 70% of the documentation and serve as the foundation for cabinet engineering
- Last year, nine engineers produced 45,000 pages of electrical documentation with WSCAD

Ledinek Engineering from Hoče in Slovenia is a globally recognized manufacturer of wood processing machines and lines for the woodworking industry. The manufacturer is also the most comprehensive global provider of machines and production lines for the production of structural timber on a turnkey basis. They are at the top of their competition, with products on all continents of the global market, a diverse portfolio, engineering expertise, and more than five decades of machine building experience.

All of this allows them to produce the entire CLT (Cross-Laminated Timber), GLT (Glulam Timber) production of structural glued beams, or a planing facility as a turnkey project.

The company employs over 250 people, and their rapid growth is reflected in the increase in revenue in 2022. Ledinek is an engineering-focused company, so they have in-house departments such as engineering, sales, and service. For other areas such as metal machining and field assembly, they collaborate with external companies.

The size of customers and their expectations are increasing

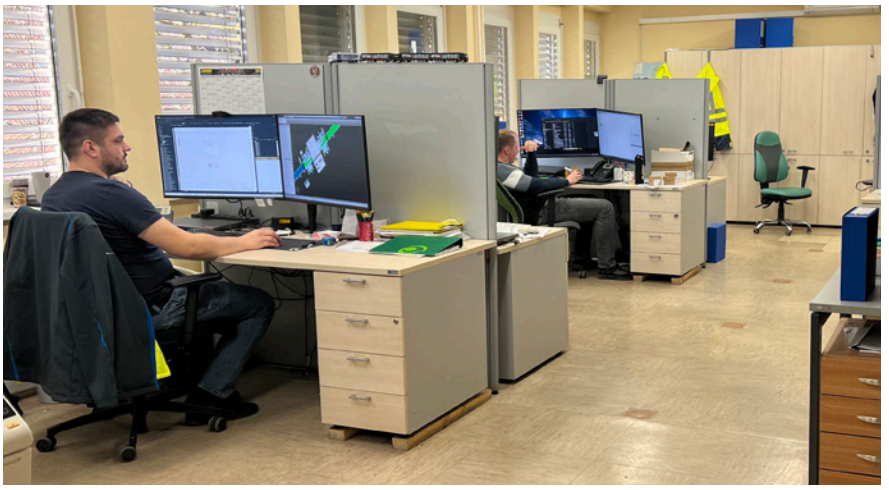
The company is finding that customers are becoming more demanding. They work with larger and more serious clients, so they aim to enhance the caliber of their products and documentation. Larger customers have developed their own standards, which must be adapted to during the project. Ledinek takes care of the entire project from start to finish, from design to assembly.

Machines and parts are delivered to the location by ships, trucks, or trains. In addition to the production line they create, they also provide training to the client's employees to operate the machines and equipment. Their projects can be worth 10 million euro or more, and their clients are mostly from other countries. They also have a few clients in Slovenia, where they completed a project for the Koles company in Kočevje. However, in Slovenia, this industry is quite small.

WSCAD ELECTRIX software for electrical design

The electrical design department has 11 licenses, which they use for planning industrial automated processes. With WSCAD, they create electrical schematics and documentation for machines and almost entirely for electrical cabinets. These steps are necessary for the entire production line to be manufactured and installed.

The Ledinek company chose WSCAD software 25 years ago and has benefited from it on a daily basis ever since. They try to get the most out of WSCAD software and increase efficiency, so they have plans for the future - they want fragmentation, structuring, and implementation into their own ERP system, which would efficiently connect processes in the company. Linking WSCAD to the ERP system would facilitate production, electrical assembly, storage, and procurement when manufacturing electrical cabinets.



WSCAD software licences are in use in the Electrical Design Department

Ledinek uses WSCAD software to design control cabinets

They use WSCAD software in the disciplines of electrical schematics and electrical cabinet design. Schematics account for 70% of WSCAD documentation and serve as the foundation for additional work in the discipline of electrical cabinet design. Last year, nine engineers produced 45,000 pages of electrical documentation for project purposes WSCAD also allows them to divide the production line into several sections during the planning phase. Because each part works as a whole, they can easily reuse parts from previous projects on the next project.

In addition to the existing advantages of WSCAD software, Ledinek also sees potential in the Cabinet AR (Augmented Reality) application, which has been designed for electrical cabinet maintenance. Ledinek have already tested the application and found it effective and are planning to use it in the future.

A multi-million-euro project and successful adaptation of established solutions

One of the larger projects where Ledinek used WSCAD software was the development and installation of a production line for a client in Sweden. The project, worth several million euros, had to meet extremely high requirements as well as client's internal standards. Typically, investors in large projects engage an internal assessor or a team that is involved in the project at all stages.

This ensures that the project is aligned with all necessary standards and requirements, both corporate and national, at all levels. Such projects are more or less adapted to the customer's needs and can be supplemented and upgraded later on. In this specific project, the customer's requirements for the electrical side were so extensive that they actually required a completely new approach in all stages, both in the planning and implementation phases, which further increased the overall project cost.

Quality collaboration with partners is also important for the successful implementation of projects. The official representative for WSCAD software in Slovenia is EXOR ETI d.o.o. The team at Ledinek is very satisfied with their collaboration and emphasizes that responsive technical support is of great importance to them.

Ledinek's goal for the future is to continue their successful path and further strengthen their position globally, as they aim to co-create global trends in the woodworking industry. Greater and more extensive use of WSCAD software will contribute to achieving this goal.

WSCAD is part of the Buhl group with more than 800 employees. WSCAD has been developing electrical CAD solutions for over 30 years. Customers include medium-sized companies, international corporations, and engineering service providers. More than 40,000 users rely on WSCAD software as their electrical CAD solution. The software is based on one core platform that covers six engineering disciplines: Electrical Engineering, Cabinet Engineering, Piping and Instrumentation, Fluid Engineering, Building Automation and Electrical Installation. Any change made to a component in one discipline immediately reflects in all the other disciplines saving time and raising quality. The WSCAD portfolio is completed by eleven seamlessly integrated service offerings from WSCAD Global Business Services. Engineering and migration checkups, consulting and training, digitization of paper documents and conversion of third-party electrical CAD formats quickly help to shorten engineering times and increase productivity. With the help from the WSCAD Global Business Service, the time for planning and design can be reduced from several weeks to a few hours and minutes. At the same time, standardization, reuse, and automation results in higher quality work.

wscaduniverse.com is by far the largest electrical CAD data library on the market offering over 1.4 million articles from more than 400 manufacturers. It is the only digital library that supports both WSCAD and EDZ* format users alike as well as DWG and 3D CAD data. wscaduniverse.com is free of charge for all users and manufacturers of components and equipment. WSCAD also offers apps for mobile devices: maintenance engineers and service personnel are now able to scan components in a control cabinet by using the WSCAD Cabinet AR App. This way they get instant access to the schematics, device tags, part data, 3D views and even the original data sheets from the manufacturers.

Building engineers can use the Building AR App on site to scan rooms and then edit the scanned floor plans in the WSCAD software for building automation and electrical installation.

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WSCAD, Ledinek Engineering d.o.o success story, technical modifications and errors excepted, 05/2023

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