ROTKÄPPCHEN-MUMM

SUCCESS STORY

# DIGITAL MAINTENANCE AT ROTKÄPPCHEN WITH WSCAD ELECTRIX

WSCAD

**At a Glance:**

**Customer**
- Rotkäppchen-Mumm Sektkellereien GmbH, Freyburg (Unstrut), Germany

**Situation**
- Maintenance and rapid troubleshooting are key success factors in production
- Line documentation from suppliers is mostly in paper or basic PDF format
- For smaller projects, electrical schematics and control cabinet layouts are developed in-house

**Software / Hardware Used**
- WSCAD ELECTRIX with Electrical Engineering and Cabinet Engineering modules

**Results / Benefits**
- Faster redesigns and digitization of legacy documents thanks to intuitive software handling
- Quicker fault diagnosis and reliable maintenance via intelligent digital schematics
- Efficient in-house control cabinet design and production line modifications

*At Rotkäppchen Sektkellerei in Freyburg, production is all about precision and uptime. On two lines, up to 600,000 bottles are filled daily—a process with virtually no tolerance for downtime. To ensure reliable operations and minimize revenue loss, faults must be pinpointed fast and outages kept short. Since plant documentation exists only in paper or PDF format, the maintenance team is digitizing supplier-provided drawings step-by-step using WSCAD's E-CAD solution, laying the foundation for fast, modern maintenance workflows.*

The filling lines operate nearly round-the-clock in three shifts – precisely, automatically and under tight timelines. When a component fails, the line stops. ""Every minute counts," says Jan Wiemann, Workshop Manager with over 20 years at Rotkäppchen. "Our goal is clear: get the line running again as quickly as possible."

The filler lines come from a major OEM but are complemented with components from numerous specialty suppliers, like labeling machines, packaging units, or wire-hood assembly equipment. The result is a highly complex system with schematics from multiple suppliers, mostly in paper or PDF format. Faults occur mechanically – in labeling or packaging units – or electrically, such as failed sensors, 24-V power supply issues, or electro-pneumatic valves. The team must quickly identify the faulty component and locate the issue. But with drawings buried in paper binders or PDF files, that means time lost searching, flipping pages, and cross-referencing.

## Digitizing Electrical Schematics

"Documentation is our biggest bottleneck," Wiemann notes. "Time slips away finding the right drawing—and downtime costs money." To speed up maintenance, Wiemann's team converts paper or PDF drawings into digital schematics using WSCAD E-CAD software. The process is labor-intensive upfront, but the payoff is huge: components can now be clearly identified, cross-references clicked, and article data viewed directly. Wiemann sums it up: "Intelligent PDFs let maintenance teams instantly access technical specs, manufacturer info, or spare part numbers. One click reveals the exact schematic page with all details – no more hunting through stacks of docs," Wiemann explains. This clickable navigation to associated schematics or system functions marks a key step toward fully connected maintenance."

Beyond digitizing existing docs, the Freyburg team uses WSCAD's Cabinet Engineering module to design and build smaller control cabinets in-house.

*Production runs around the clock at Rotkäppchen Sektkellerei in Freyburg. Two lines fill up to 600,000 bottles daily—every minute of downtime counts.*

*With nearly 600,000 bottles daily, flawless operation of Rotkäppchen's two filler lines is a top production success driver.*

> “Even though redrawing schematics takes effort, WSCAD makes it fast, and the resulting benefits are substantial.“

Major main cabinets come from machine builders, but modifications and add-on controls are handled internally.

**Easy-to-Use Software with Maximum Flexibility**

Wiemann and his team value WSCAD's intuitive interface. Menus are clear, visualization is modern, and the extensive pre-loaded symbols and article data for valve islands, PLCs, contactors, or motor protection switches save significant time. Need a missing part? “WSCAD is flexible. We can quickly create custom symbols and articles ourselves,” Wiemann says. “It keeps us independent and saves time.”

“Even though redrawing schematics takes effort, WSCAD makes it fast, and the resulting benefits are substantial,” he adds. The team also praises WSCAD's sales and support, which is responsive and practical whenever questions arise.

**Faster On-Site Support with Cabinet AR App**

Progress shines through WSCAD's included Cabinet AR App for iOS and Android. Technicians scan QR labels on components to instantly access via smartphone or tablet schematic pages, component data, manufacturer datasheets, and even 3D component views. Connections on the back of components can be inspected without disassembly. Spare part requests can be triggered directly in the app, and changes made on-site are automatically fed back into the documentation via redlining. The result is a living digital twin, always reflecting the real state of the equipment.

**Next step: AI-Powered Schematics Import**

The upcoming WSCAD ELECTRIX AI will further increase efficiency by automatically reading PDFs, DWG files, and scanned schematics, recognizing symbols, connections, and device identifiers – then generating intelligent, linked schematics in WSCAD. Resulting PDFs retain interactive navigation to other pages. “We're looking forward to the day AI eliminates manual redrawing,” Wiemann notes. “It will save us a huge amount of time—time we need for line optimization and, most importantly, for troubleshooting.”

## Conclusion: Faster Response, Less Downtime

Digitized schematics, AR support, and AI-assisted functions enable proactive maintenance at Rotkäppchen. Downtime is reduced, errors analyzed faster, and components replaced efficiently. Technical documentation remains up-to-date, delivering immediate benefits in daily operations.

“In the end, what matters is that the line keeps running,” Wiemann summarizes. “With WSCAD, we have a tool that helps us do just that – quickly, easily, and reliably.” Rotkäppchen’s maintenance demonstrates pragmatic digitalization: no pilots, just practical improvements addressing real bottlenecks.

*Smaller control cabinets and line components are designed and built by the Freyburg team independently, supported by WSCAD E-CAD software.*

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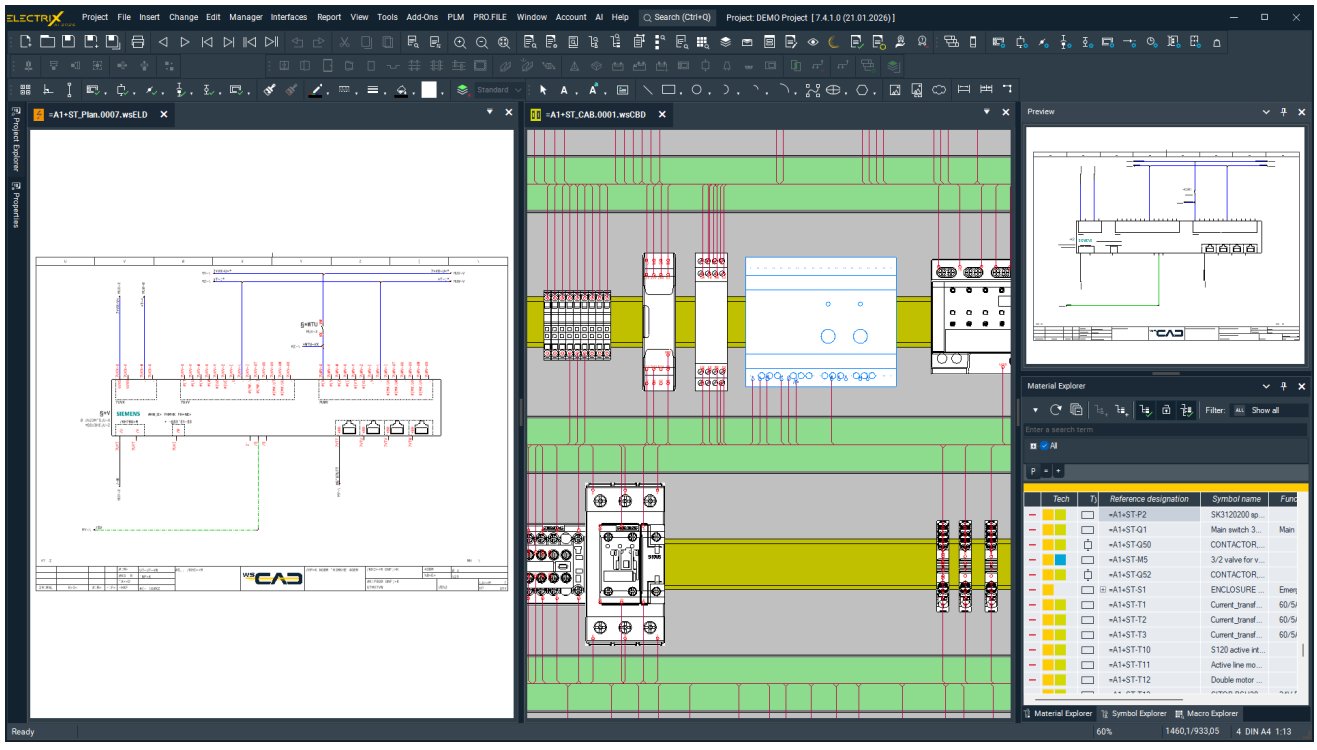


*For add-on plant parts, techs create schematics and cabinet layouts using WSCAD’s Electrical Engineering and Cabinet Engineering modules.*

*WSCAD's Cabinet AR App scan gives on-site techs instant access to schematics, part data, and OEM sheets. Direct spare requests and redlining keep docs live.*

WSCAD is the world's first provider of AI-powered E-CAD software and has specialized in electrical design solutions for over 35 years. On a seamless platform with a centralized database, WSCAD unites six disciplines – from electrical engineering and cabinet design to building automation. AI features boost efficiency, enable automation, and make complex tasks accessible even to less experienced users.

More than 40,000 users in over 100 countries rely on WSCAD for machinery and plant engineering, building automation, and installation technology. Apps such as Cabinet AR or Building AR provide digital support for planning and service processes. The E-CAD data library, wscaduniverse.com, offers over 2.1 million free parts data records.

The portfolio is rounded off by eleven specialized services – ranging from engineering checkups and training to format conversion. WSCAD is part of the Buhl Corporate Group.

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