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ELECTRICAL PLANNING FOR AUTOMATED CABINET PRODUCTION

Electrical planning becomes costly when project data ends at the schematic stage. Cabinet builders then spend time interpreting drawings or recreating missing information that should have been resolved upstream. The pressure is sharper on machine and plant projects where shortened delivery windows leave little room for manual rework. A planning service, therefore, has to be judged not only on drawing quality but also on how far its engineering data can travel into production without being rebuilt.

Fragmented project data is a common source of avoidable change. Separate engineering groups may work from different libraries, naming conventions, macros or component records, while mechanical design and software teams progress on their own assumptions. The result is less a design problem than a data-control problem. Electrical planning should establish a dependable database that can support cross-disciplinary coordination and later manufacturing steps. Standardised device information matters here because automation downstream is only useful when the underlying project data is complete and consistent.

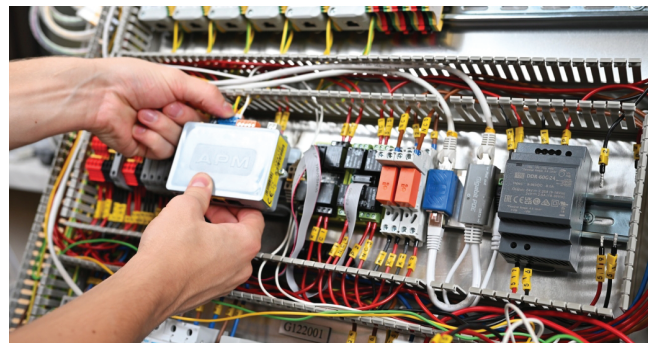


KONSTRUKTIVE LÖSUNGEN GmbH links EPLAN-based electrical planning to 3D cabinet design and automated production data, narrowing the handoff gap between engineering and cabinet building.

That discipline becomes more important when late design changes arrive. If component substitutions are updated unevenly across drawings and manufacturing records, procurement and workshop teams can act on different versions of the same project.

Cabinet production creates another test. Traditional documentation may be technically correct yet still leave substantial interpretation to the workshop. Modern planning services can reduce that gap by preparing information for 3D cabinet layouts and machine-assisted production. Cutouts, drilling data, wire preparation and terminal processing can move closer to the engineering stage when the digital model is developed with fabrication in mind. This changes what buyers should expect from a planning partner. Deliverables need to be useful to the people building the cabinet, not only to the engineers approving the design.

Software specialisation also deserves scrutiny. Electrical engineering platforms such as EPLAN contain far more value when the service provider understands how project structures affect later documentation and manufacturing data. Tool familiarity alone is insufficient. Buyers need evidence that the planning team understands how schematics connect to cabinet construction, installation work, controls development and commissioning activity. That broader practical background helps prevent designs that are correct on screen but awkward to execute on the shop floor or at the machine.



A useful digital twin should function as a working production model rather than a presentation layer. It can carry the electrical design into physical cabinet preparation and reduce repeated interpretation between engineering and fabrication. It also creates a cleaner basis for revisions because changes can be managed from a controlled project structure rather than scattered local files. For executives, the practical question is whether the planning partner can turn engineering data into manufacturing-ready information without creating another handoff.

For manufacturers that want electrical planning to carry usable data into cabinet production, **KONSTRUKTIVE LÖSUNGEN GmbH** merits close consideration. **KONSTRUKTIVE LÖSUNGEN GmbH** links EPLAN-based electrical planning to 3D cabinet design and automated production data, narrowing the handoff gap between engineering and cabinet building. Its team specialises in EPLAN and brings experience in PLC programming, commissioning, electrical installation and cabinet construction. The service scope includes EPLAN Electric P8 and EPLAN Pro Panel, supported by 3D cabinet planning and automatically generated production documentation. It can also extend planning into preprocessed cabinet components, giving buyers a practical route from engineering data to faster cabinet assembly. **EB**

KONSTRUKTIVE LÖSUNGEN GmbH

Turning Electrical Planning into Production Readiness

The more questions a control cabinet carries into the workshop, the more time production spends solving engineering instead of building.

KONSTRUKTIVE LÖSUNGEN GmbH works to reverse that equation. Using EPLAN, a digital engineering platform for electrical design and documentation, brings cabinet and machine planning into a single connected environment before manufacturing begins.

Electrical schematics, component information, material requirements, wiring data and manufacturing documents are developed from one approved dataset rather than created independently. When engineering data changes, the related documentation and production information can be updated in a controlled way, helping manufacturing, installation and software teams work from the same design.

The connected workflow gives KONSTRUKTIVE LÖSUNGEN GmbH room to resolve technical interfaces, customer requirements and safety considerations while the cabinet is still being engineered. Fewer unresolved decisions therefore reach manufacturing, where changes are harder, slower and more expensive to make.

“Our aim is to provide a complete, checked and manufacturing-ready design at the right time rather than producing as many drawings as possible as early as possible,” says Martin Gruber, CEO.

The value of the digital system depends on the engineering responsibility behind it. Problems are solved where they occur rather than passed to the next discipline. Engineers align technical interfaces, translate customer requirements into clear design requirements and incorporate safety from the concept stage. Depending on the project, the planning takes IEC or UL standards into account, and safety functions can be validated in SISTEMA. Team members have specialised in EPLAN since the start of their careers, backed by practical experience in PLC programming and commissioning, which helps them anticipate how planning decisions affect downstream disciplines.

THE WORKSHOP SHOULD ASSEMBLE, NOT RE-ENGINEER

Once the electrical design is established, KONSTRUKTIVE LÖSUNGEN GmbH takes it further into the physical logic of the control cabinet.

EPLAN Pro Panel extends the engineering data into a 3D model, allowing the team to define component placement, spacing, cable ducts, mounting rails, holes, cutouts and wire routes before production begins. The model develops into a digital twin that



Martin Gruber,
CEO

combines the information needed for layout, machining and wiring. Power losses can also be evaluated and cooling requirements calculated through RiTherm in the EPLAN Cloud. The same engineering data can support preassembled wire sets, machining information and automated terminal-strip production.

CONSISTENCY PREVENTS PROJECT DRIFT

A project can be technically sound and still lose time when teams work from different information.

Gruber encountered that problem firsthand in a large U.S. project where internal engineers, external specialists and multiple disciplines operated without a shared data pool or consistent standard. Software, installation and mechanical teams relied on different information, leading to repeated changes, missing material and time pressure during execution. KONSTRUKTIVE LÖSUNGEN GmbH counteracts this with standardized and tested circuit diagram macros as well as documented work and change processes. Electrical documentation is made available to all participating project members via the EPLAN Cloud to prevent discrepancies in information. Conversely, redline changes are reported back via the cloud.

FROM DIGITAL TWIN TO CABINET KIT

Long cabinet-building lead times do not always require more cabinet builders.

KONSTRUKTIVE LÖSUNGEN GmbH convert the digital twin into a prepared cabinet kit with a machined enclosure and mounting plate, assembled and labelled terminal strips, prepared wires, electrical components, small parts and labels. In one customer project, the setup enabled younger employees to assemble the cabinet with the company's support, reducing dependence on dedicated cabinet builders while saving time and cost. Beyond individual projects, the company supports EPLAN system administration and standardisation, maintaining reusable data, standards and processes for future machines and plants.

“For us, engineering does not end when the electrical schematic is issued,” adds Gruber. “We continue the digital planning process until it becomes a real control cabinet that can be assembled efficiently.”

By connecting electrical planning directly with manufacturing, KONSTRUKTIVE LÖSUNGEN GmbH turns engineering data into a more assembly-ready cabinet, supporting its recognition as Electrical Business Review's Top Electrical Planning Service in Europe 2026. **EB**

Certificate

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Andre Brown

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