

Electrical design of circuit diagrams and wiring of control cabinets



Prefabrication
of electrical cabinets



Comprehensive
electrical installation

amister.pl/en

The background of the right side of the page features a photograph of an industrial electrical control cabinet. The cabinet is filled with various components, including terminal blocks, relays, and wiring. The image is partially obscured by large orange geometric shapes. The 'amiSter' logo is overlaid on the right side of the image, with 'ami' in white and 'Ster' in orange. Below the logo, the tagline 'solutions for industry' is written in white, preceded by a small orange square.

amiSter
solutions for industry

Our competencies

- 1** Electrical design – preparing documentation in accordance with the 1 EPLAN P8 standard.
- 2** Control cabinet wiring according to own documentation (E-plan).
- 3** Control cabinet wiring according to customer documentation (E-plan).
- 4** Modernization of existing control cabinets and control systems.
- 5** Complete wiring of the system and connection of the control cabinet, commissioning.

Our standards in control cabinet design are becoming based on equipment of the following companies: Atlas Copco, Balluff, Bosch Rexroth, Cognex, Festo, HELUKABEL, IFM, KEYENCE, Lapp Kabel, Murrelektronik, Phoenix Contact, Rittal, SCAME, SEW-EURODRIVE, SICK, Siemens, Turck.



Electrical projects Electrical constructions

Our specialists possess well-established knowledge regarding control and measuring devices, power supply, control and visualization systems, and industrial computer systems.

We are able to offer our customers optimal solutions in terms of design, technology and cost-efficiency.

We implement comprehensive constructions of control cabinets which meet our customers' requirements and expectations.

What we offer

Control cabinets construction according to the applicable electrical regulations and norms.

Preparing electrical documentation according to EPLAN Electric P8, Projects of electrical switchgear.

Projects of electrical and control cabinets (control sets).

Update of existing electrical documentation.

Electrical installation for the European market.

What we can do for you



Composition of control systems for industrial automation



Modernization of existing control cabinets and control systems



Low-voltage switchgear

What we offer

1. Prefabrication of switchgear based on own projects or projects received from the customer.
2. Prefabricated cabinets are compatible with the following standards: PN-IEC 60364-5-523, PN-IEC 60364-5-523, PN-IEC 60364, PN-EN 50110-1, PN-EN ISO 13849-1, PN-91 / E-05160, PN-90 / E-05023.
3. Control cabinet construction according to customer requirements.
4. Individual calculations for pricing of materials and assembly work.
5. Discounts on devices and low-price guarantee for our customers.
6. Electrical installation for customers from Poland (PL) and the European Union (EU).

Examples of implementation



Brose Sitech/Polkowice/Poland – 5 pieces MPX riveting line

Commissioning:

Stations: AFO201 backrest loading, AFO203 automatic joining with screws, AFO205 paint, AFO206 torque measurement, AFO208 assembly, AFO211 automatic riveting, AFO216 unloading NOK/Correction, AFO217, output OK.

Mercedes-Benz/Türkheim/Germany – gearbox assembly line, 30 stations | Scope of work:



Gearbox assembly line (30 stations), automatic and semi-automatic stations. Connection of external transport systems.
Connection of ready cabinets received from Heldele.
Connection of sensors. Installation of cable trays.
Connection of stations to each other. Applying markings.
Commissioning of electrical systems. Support of employees.

Mercedes-Benz/Köllede/Germany – Electrical modernization of the engine assembly line | Scope of work:



Semi-automatic stations. Modifications according to obtained Eplan documentation. Connection of screw guns. Torque tests. Connection of newly delivered control cabinets. Modification of ET200PRO communication. Connection of new sensors. Connection of RFID systems. Wire ducts installation. Installation of signal lights. Installation of an Ethernet network. Electrical disassembly of old stations before line modernization.

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DAIMLER

Daimler Mercedes/Lauchheim/Germany/Jawor/Poland – Repeated commissioning of electric systems at the end customer | Scope of work – engine assembly line:

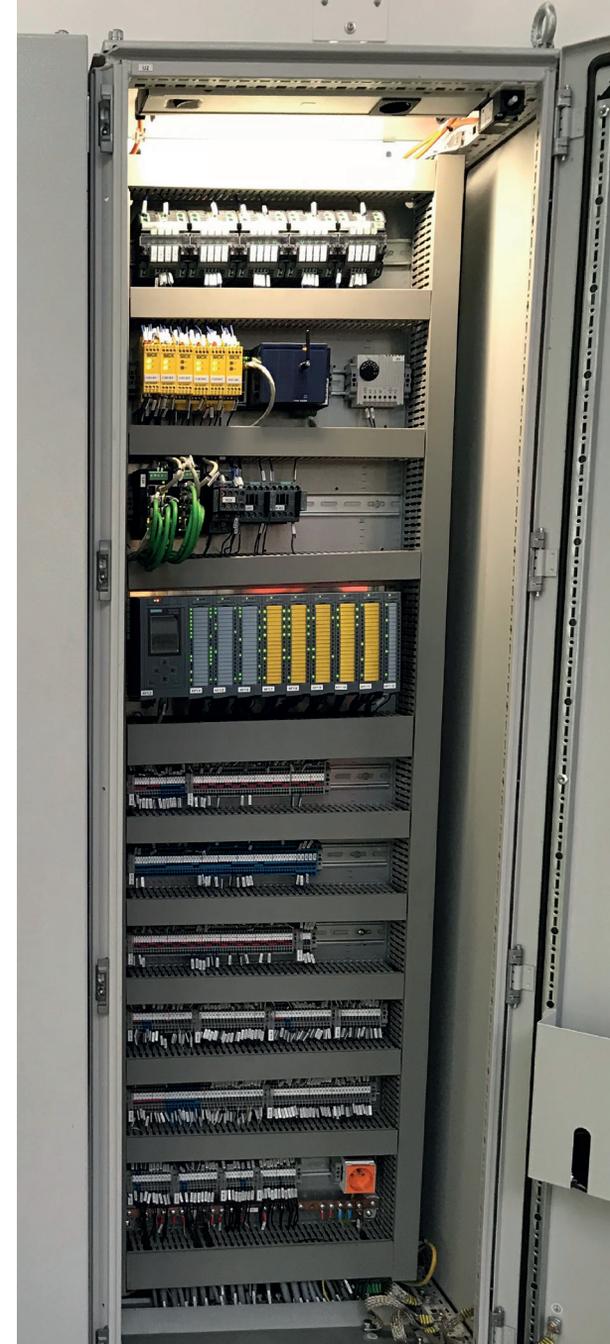
Connection of 40 stations. Automatic and semi-automatic stations. Conducting functional tests. Connection of Profinet communication. Connection of a transport system. Placing markings. Electrical commissioning together with a PLC programmer. Support for PLC programmers in commissioning of the line.

LEAR/Legnica/Poland – station for automatic packaging of backrests, 5 final assembly of 5 backrests | Scope of work:

Project planning, design and construction of a conveyor system and placement of the output in a container. A manual robotic loading station with a table of the company Weis was built. The software recognizes backrests using a Keyence-Scanner. A Fanuc packaging robot was programmed. Integration of the robots with the container line was performed. The station was secured with security systems (SICK).

Brose Sitech/Polkowice/Poland – ILK automated loading of the paint station | Scope of work:

Complete programming and synchronization of FANUC robots. PLC programming – synchronization of robots with a transport system. Eplan design and wiring of a control cabinet.





brose sitech
Interior Solutions

Brose Sitech/Polkowice/Poland – Car seat joining line | Scope of work:

Line for joining seats with screws. Transport system of the BOSCH company. Transport pallets. Manual loading/ unloading. Two manual joining stations with BOSCH screw guns and two automatic welding and riveting stations. Welding – ARO control with electrodes. Riveting – BALTEC riveting machine. All parameters of screw, rivet and welded joints are stored in RFID. At the end of the line, if the process was carried out correctly, data: code, seat number and date are engraved with the TECHNIFOR machine. All quality data are sent to data archiving system.

Legrand/Poland – Automatic soldering station Legrand | Scope of work:

legrand[®]

Own design and complete construction of the station. Preparation of automatic soldering process according to customer documentation. Preparing Eplan documentation and control cabinet wiring. PLC and HMI programming. SPS und Panel HMI Programmierung.



amiSter

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Contact

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