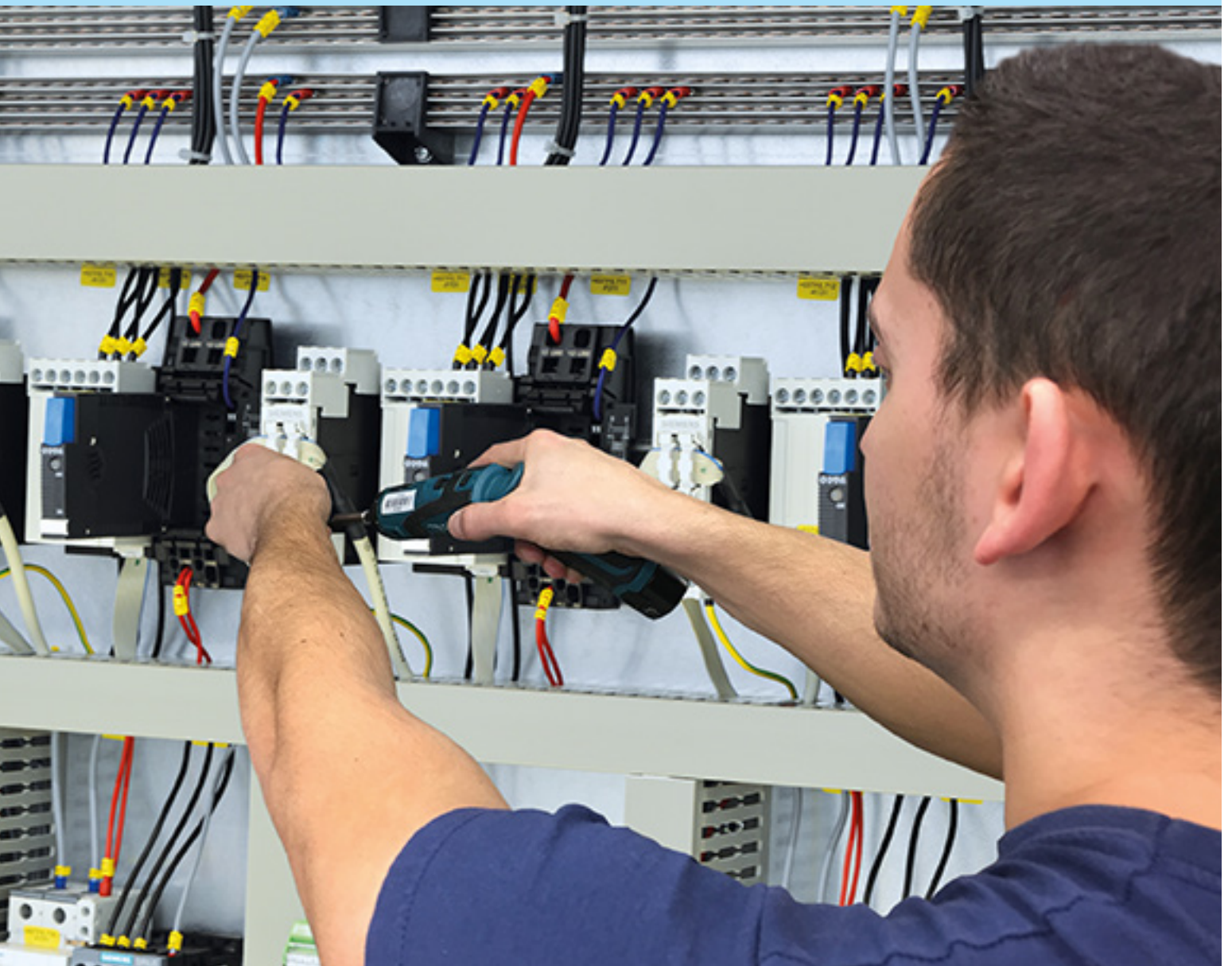


## **Automation systems - I&C - Distribution boards**

Know-how and system solutions since more than 45 years



# Individual customer solutions of tradition

Since 1971, KÖHL has been offering tailored concepts for customers and partners in the areas of **control systems, automation systems, I&C panels, building management systems and distribution boards.**

In the process, the focus constantly lies on the use of state-of-the-art technologies under consideration of common standards, applying to the entire project settlement process chain: In addition to the production of the systems, the recording of personal requirements and concept development in cooperation with the customer are just as second nature to KÖHL as competent after-sales service according to FAT and on-site commissioning.



## CONTROL AND AUTOMATION SYSTEMS

Regardless of whether the respective system is being self-planned or manufactured according to customer requirement – KÖHL convinces with profound know-how and sophisticated processes in system construction.

Here, it does not matter if a prototype, a one-time application or serial production is needed – our employees always guarantee the competent settlement of **YOUR** project.

## I&C TECHNOLOGY AND INTELLIGENT BUILDING MANAGEMENT

Intelligent hardware concepts on a brand-independent basis permit the development of solutions that perfectly match the respective application of instrumentation and control (I&C) technology or state-of-the-art building management systems with and for the customer. In the process, both communication standards recognised worldwide and combinable products of well-known manufacturers belong to our portfolio.

## SMALL- AND SUBDISTRIBUTIONS FOR ENERGY AND BUILDINGS

KÖHL's expertise in high-energy switchgear manufacturing (medium voltage and low voltage) continues here in the form of low-energy distribution systems up to 1600A, extensive subdistributions for large building projects to small, local distribution or control boxes. Regardless of the size of the application, state-of-the-art production processes are used on all levels. The associated high quality standards of ISO 9001-2008 apply. An extensive testing procedure also guarantees the perfect condition of each product by certificate before delivery.

Due to high flexibility in the division of production areas, large projects with a high number of units can be implemented without a problem!



General characteristic values	
Standards and requirements	IEC / EN 61439 (Parts 1-5), IEC / EN 60204-1, UL/CSA (project-specific)
Ambient temperature	°C -5°C to +40°C, average value over 24 hours: +35°C, (deviation upon request)
Ambient conditions	Inside room setup, outside setup
Protection class	IP XX to IP 68 according to IEC / EN 60529
Internal separation	Form 1; 2b; 3a; 3b; 4a; 4b
Connection type	Cable from below, cable from above Bus bar from below, bus bar from above
Mounting type	Floor mounting, wall mounting
Communication	Profibus, Profinet, Profisafe, Ethernet, Modbus, KNX, EIB, LON, IP (additional upon request)

Manufacturer specification	
Cabinet systems	<b>Rittal:</b> Total portfolio <b>Striebel &amp; John:</b> TriLine, TwinLine <b>EATON:</b> IVS Profi Plus, CI, xBoard EP, xEnergy, MODAN S (additional upon request)
Circuit breaker and contactor	SIEMENS, EATON, Schneider Electric, ABB, (additional upon request)
Fuse technology	Jean Müller, Wöhner, EATON, SIEMENS, (additional upon request)
Automation and Control	SIEMENS, ABB, Beckhoff, Phoenix Contact, (additional upon request)



## KÖHL ADVANTAGES AT A GLANCE

- Individual tailored solutions for single-piece and serial production
- Project planning and settlement from a single source
- Highly qualified personnel and intelligent engineering tools
- State-of-the-art modern production processes
- Detailed quality assurance method according to ISO 9001-2008
- Certification according to latest standards
- Final acceptance test of functions at the factory
- Mounting and commissioning
- After-sales-service

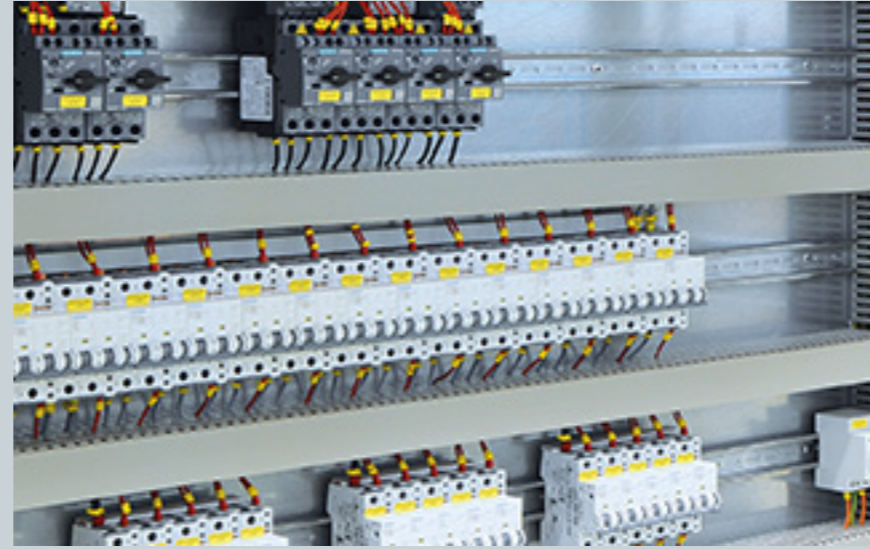






### PLANNING AND CONSULTING

KÖHL already provides support during the first step of the project: The conceptual design phase. Together with the customer, experienced specialists develop initial concepts on site and profit from extensive know-how of projects in various industries.



## System solutions from a single source

Innovative and efficient



### ENGINEERING

With state-of-the-art tools and programs, such as EPLAN P8, ProPlan, etc., the requirements from project meetings or customer specifications are worked out professionally and prepared for production.

At this point in the process, the foundation stone is already laid for detailed documentation according to latest standards and, if required, of the resulting component and wire markings.



### PRODUCTION

Whether from own planning or as an "extended workbench" – the high standard of KÖHL always applies: Standardized processes and sequences guarantee optimum throughput time for each application, which means that even short-term requirements can be delivered according to schedule.

In the process, the CAD-bound material and surface processing ensures a precise implementation of the detailed planning down to the millimetre, not only for serial products.



### QUALITY TESTING

During production, each product already has to pass an extensive quality assurance process that ends with the granting of CE compliance in our in-house test ground before delivery, regardless of the size and scope of the project.

Here, we always proceed according to the requirements of the corresponding standards – certification according to UL is possible in addition to IEC 61439 and its pertinent sections.



### AFTER-SALES-SERVICE

Beyond the installation and commissioning of our products, we naturally also provide you with our qualified personnel for maintenance, adaptation, expansion and training.

We also make spare parts and consumables available to you in a fast, uncomplicated manner, installing them directly on site as required.





POWER DISTRIBUTION SYSTEMS

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**POWER DISTRIBUTION SYSTEMS**

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