



INDUSTRIAL AUTOMATION SOLUTIONS

ELECTRICAL PANELS
FOR AUTOMATION

.....

Motek designs and builds tailor-made solutions to extend the service life of industrial systems, ensure operational continuity, and bring machinery into line with the latest technological and safety standards.





ELECTRICAL PANELS FOR AUTOMATION

Design, manufacture and certification of electrical panels for industrial automation, in compliance with European regulations and UL/CSA standards.

Motek manufactures electrical panels for industrial automation: command and control systems for machines, production lines and integrated plants.

The service covers the entire life-cycle of the panel:

- Electrotechnical design;
- Selection and procurement of components;
- Wiring;
- Functional testing and certification.

Activities are carried out in compliance with the relevant regulations:

- Directive **2014/35/UE** (Low Voltage);
- Directive **2014/30/UE** (Electromagnetic Compatibility);
- Directive **2006/42/CE** (Machinery);
- **EN 60204-1 and EN 61439-1/-2**;
- **UL/CSA standards** for North American markets (when required).

The result is an electrical panel that has been designed, documented, tested and certified in accordance with its intended use and the relevant markets.



Areas of application : for manufacturers, end-users, and technical partners.

Manufacturers of machinery and automated production lines (OEMs)

who wish to entrust the design and construction of their electrical panels – including the associated documentation and certification – to a specialist partner.

General contractors and subcontractors seeking a supplier capable of handling the technical side and documentation of projects relating to complex contracts.

Manufacturing companies and end-users

with complex production facilities that require additional electrical panels, or the refurbishment or adaptation of existing electrical panels to meet the needs of new markets.

Electrical installation companies seeking a specialist technical partner

to whom they can entrust the design, construction and certification of their electrical panels.

Electrical panel manufacturers and system integrators

looking to outsource part of their production while maintaining high quality standards and, where necessary, accessing the expertise required for UL/CSA certification.

MODE OF SUPPLY OF ELECTRICAL PANELS

Motek offers two types of service which can be adapted to the level of involvement required.

SERVICE TAILORED TO THE CUSTOMER'S SPECIFICATIONS

- Receipt of existing **technical documentation** (wiring diagram, list of utilities, specifications relating to brands of components, any market requirements).
- **Testing and validation** of the design in relation to the applicable regulations (European and/or North American).
- Planning the **procurement of components**.
- **Wiring of the electrical panel** at the Motek facility.
- **Functional testing** and the issue of the relevant conformity documentation and certification.

DESIGN CARRIED OUT BY MOTEK

- Motek's technical department prepares the **wiring diagram** and the bill of materials referring to the **list of utilities** and the machine documentation.
- **Sizing of the wiring and components** in accordance with the relevant standards and mechanical characteristics (loads, weights, operating conditions).
- **Design of the internal layout of the electrical panel**, leaving some space for future extensions or additions.
- Construction, wiring, testing and certification of the finished electrical panel.

COMPONENTS, STOCK AND CROSS-PLATFORM CONVERSIONS

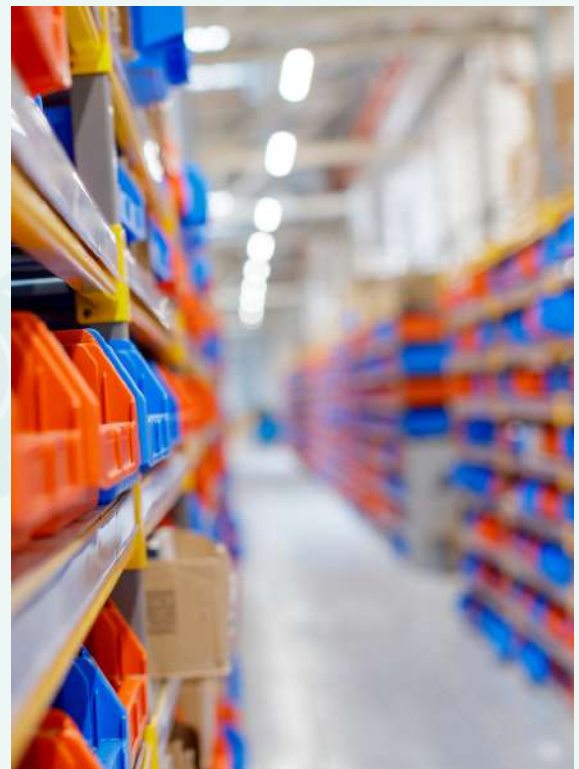
Motek maintains a **technical inventory featuring a wide range of components for industrial automation**: PLCs, drives, motion control systems, HMI interfaces, panel PCs and industrial networking devices.

This inventory enables Motek to plan and launch the production of electrical panels quickly, and fulfil even multiple or large orders.

When a project requires specific brands that are not in stock or are not widely available, Motek draws on a **network of national and international suppliers that has been established over decades**, ensuring rapid delivery of the brands concerned.

Motek's team also possesses the expertise to:

- propose **equivalent alternatives** in terms of technical specifications and regulatory compliance, should a component be unavailable or have been discontinued;
- manage **guaranteed conversions from the environment of a brand of components to another** (for example, from Rockwell to Siemens platforms and vice versa), while maintaining full functional compatibility and regulatory compliance.



MOTEK srl

Headquarters:
Via Manlio Brosio, 8/10
14053 CANELLI (AT)

WEB

www.motekautomation.com

EMAIL

info@motekautomation.com

TELEPHONE

+ 39 0141 180 00 08

