

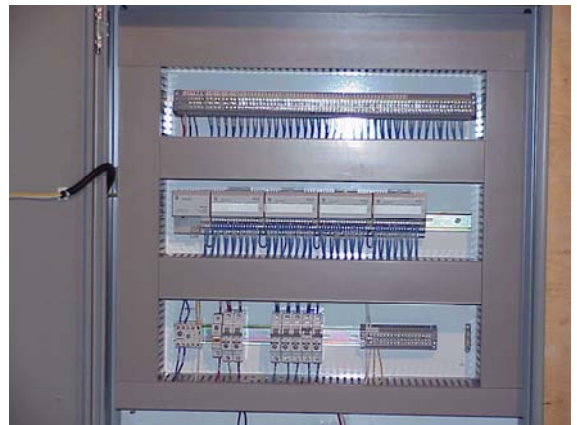
KRAKEN Control Panel Building Services

Automation systems, no matter which industry they are applied, need to be contained and protected from a wide variety of environments. Kraken Automation has extensive capabilities in the design, assembly and installation of any configuration of control panels.

Control panels are an essential component of any automation system. Contained within these cabinets are the electrical and automation systems needed to provide the required control for the local sub process or packaging machine. Moreover, they must provide the required protection for the environment that the automation is applied to, whether it's an explosion hazard, dusty, wet, wash down or outdoor application. Regardless of the challenge, Kraken can provide customers with any panel configuration to achieve the desired automation solution.

A sample of the services and resources that Kraken Automation can offer pertaining to Control Panels are:

- Review of customer requirements, detailing automation distribution requirements, operating environment, maintenance considerations and operator interfaces;
- Comprehensive control panel designs, including low voltage power and motor control circuits (208VAC to 600VAC), control voltage circuits (120 VAC, 24 VDC), PLC input/output card wiring for all varieties of standard and intelligent modules, component settings (VFD, DIP switches, etc.), communication and PLC rack topologies, control panel layouts and bill of materials;
- Specification and procurement of all required control panel components;
- Assembly of control panels at Kraken control panel shop to CSA, UL or CE standards;
- Complete in house FAT (Factory Acceptance Testing) with customer; and
- Site installation and commissioning services.



With over 16 years of experience in industrial installations, Kraken has the knowledgebase to provide customers with the proper selection and design of control panel cabinetry and automation components. Kraken can also provide panels conforming to customer plant standards, be it wire color codes, wire/device tagging conventions, panel paint specifications, or automation component standards. For a more detailed list of Kraken control panel knowledgebase, refer to the last page of this detail sheet.

Small Sample of Control Panel Applications:

1. Depalletizing System Rebuild

Synopsis:

Control panel incorporated as part of a high-speed empty can depalletizer rebuild. Control panel was built to CSA standards, with an Allen Bradley SLC 5/05 PLC control, VFD controller pallet lift with brake resistor, communicating to PLC over remote I/O, soft starters, safety relay circuit, and general motor control for peripheral pallet and slip sheet systems.



2. Dough Cutting System

Synopsis:

A 36 ft. long control panel assembled into sections for a bakery dough forming and cutting process, containing an Allen Bradley PLC 5 processor, 24 VFD drives of various HP sizes (sizes ranging from 1 HP to 20 HP) communicating on remote I/O to PLC, and ancillary control for localized operator interfaces, and general machine control. Due to installation schedules, this control panel was designed, assembled and installed within a one-month time frame.



3. Cooking Machine System

Synopsis:

Control panel designed to CSA standards, providing control for a cereal cooking machine, including integration of soft start motor controls, weight monitoring instrumentation, Allen Bradley PLC 5 processor, and a variety of signal conditioning instrumentation for cooker motor load usage, zone temperatures, inlet dry feeder and water flow rates and cooking steam pressures.



4. Case Conveying and Orientation System

Synopsis:

Control panel designed to UL standards, providing control for a case conveying and orientation system. An Allen Bradley Compactlogix PLC, integrated with Bosch servo drive amplifiers for the case orientation mechanisms, provided the system control. Included in this panel are several VFD drives for packaging line conveyor control, and guard/safety circuits designed to category 3 safety levels.



[Contact us today for more information on how Kraken Automation Inc. can assist you with your Control Panel Building requirements.](#)

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