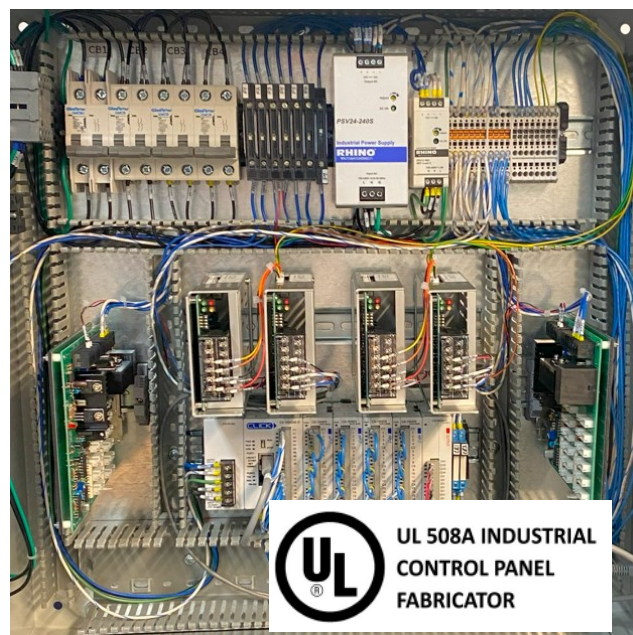


# Industrial Control Panel Design and Fabrication

## Overview

- Industrial control panel fabrication for various equipment and applications.
- In-house UL-508A certified panel shop.
- Electrical engineering group can assist with design and engineering for industrial control panels.
- Build to customer drawing/specification is also possible.
- Can comply to various codes and regulations.
- Programming services for HMI and PLC are available upon request.



## Specifications

|                               |   |
|-------------------------------|---|
| <b>Design standards</b>       | Standard panels follow NFPA 70, National Electrical Code and NFPA 79, Electrical Standard for Industrial Machinery.   |
| <b>UL-508A</b>                | UL-508A projects will be labeled accordingly, with technical ratings listed on the panel.   |
| <b>CE certification</b>       | Control panels for Europe can be built in compliance with CE directives: CE Low Voltage Directive 2014/35/EU.   |
| <b>Other regulations</b>      | Other regulations can be provided upon request. NRTL certification is also possible upon request.   |
| <b>Design and engineering</b> | Full engineering services can be provided upon request: Panel layout drawings, electrical schematics, electrical calculations.  |
| <b>Programming</b>            | Programming for various types of HMI / PLC are possible. Some examples are below of manufacturers we can support.<br>Allen Bradley, Siemens, Delta Electronics, Mitsubishi, Omron, Automation Direct, Beckhoff, Control Techniques...etc. |
| <b>Material procurement</b>   | Materials for the panels can be provided by the customer. Material procurement services for control panels are also possible when desired.  |
| <b>FAT</b>                    | Factory acceptance tests will be performed prior to shipment.   |
| <b>On site installation</b>   | On site installation and program adjustment of panels after docking to the equipment can be provided.   |

# Industrial Control Panel Design and Fabrication

**Floor standing operator control desk**



**On-machine operator control HMI examples**



**Control panels integrated in machinery**



**Floor standing industrial control panels**



**Conveyor control panels**

