

ISC Companies

Panel Shop Capabilities +



- + Control Panel Manufacturing & Design
- + Encoder Sales, Service & Repair
- + Machine Safeguarding



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ISC Companies is proud to be a UL 508A/698A certified panel shop with in-house engineering capabilities and designers that are experienced in drafting, building, programming, and supporting intrinsically safe control panels for use in a variety of industrial applications and working environments.

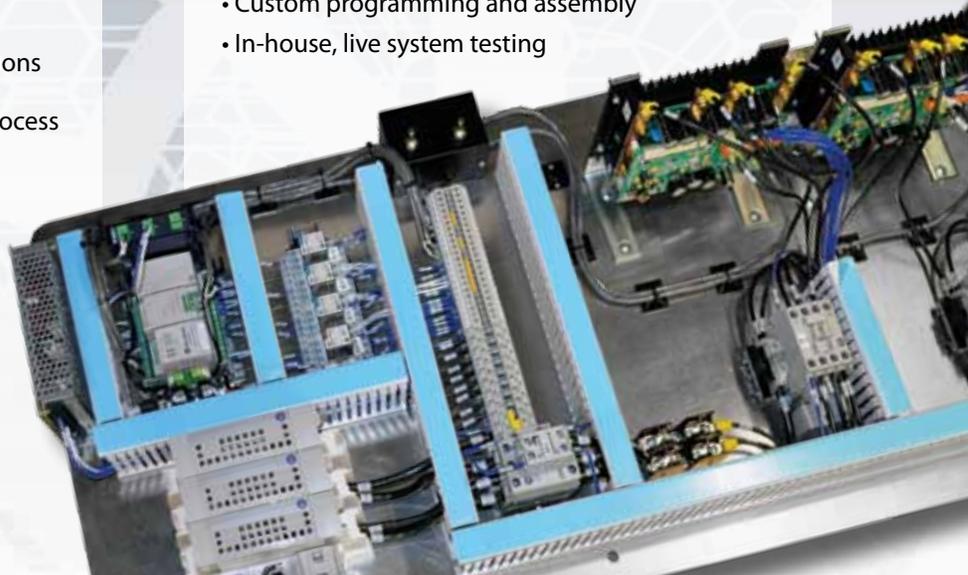
UL 508A: Control panels for industrial applications

UL 698A: Intrinsically safe control panels for process control in hazardous locations

Using UL listed or recognized components in an industrial control panel *does not* guarantee that the control panel meets applicable UL safety requirements. Only by using a UL 508A listed panel shop, like ISC Companies, are you assured that the entire assembly complies with UL standards. >>

Electrical Panel Manufacturing

- PLC (Programmable Logic Controller), HMI (Human Machine Interface), and PC based control systems
- System planning and evaluation
- Complete turnkey solutions
- Component specification and integration
- Custom programming and assembly
- In-house, live system testing



Control Panel Manufacturing & Design

Electrical Panel Designs

- Fan and pump control panels
- Wastewater control panels
- VFD (Variable Frequency Drives) and Across-the-Line starter panels
- Crane and hoist control panels
- Auger and conveyor control panels, including food and beverage
- Custom automation panels with PLC and HMI user interface
- MCP (Motor Control Panels) including large MCC (Motor Control Center) panels
- Junction and tie-in panels
- OEM contract panel assemblies



Damaged encoders are a common occurrence in machining operations and manufacturing plants. Because they are sophisticated electromechanical devices, encoders are susceptible to aging, wear, contamination, and physical damage. Signs of a failing unit include an axis error on your machine or counting inaccuracies.

When your encoder is no longer working properly you have two options: repair or replacement. ISC Companies offers both options, and we want to help you determine which of those is right for your circumstances.

Our panel shop includes a fully functional encoder service and repair center for linear, rotary, and angular encoders including Heidenhain, Acu-Rite, and RSF Elektronik. As long as the internal glass is not damaged or broken and replacement parts are still available, we can repair any encoder for a fraction of the cost of buying new. >>

Encoder Repair

- Cable repair and replacement
- Sealing lip replacement
- Replacement of reader (scanning) head
- Cleaning, calibration, and testing



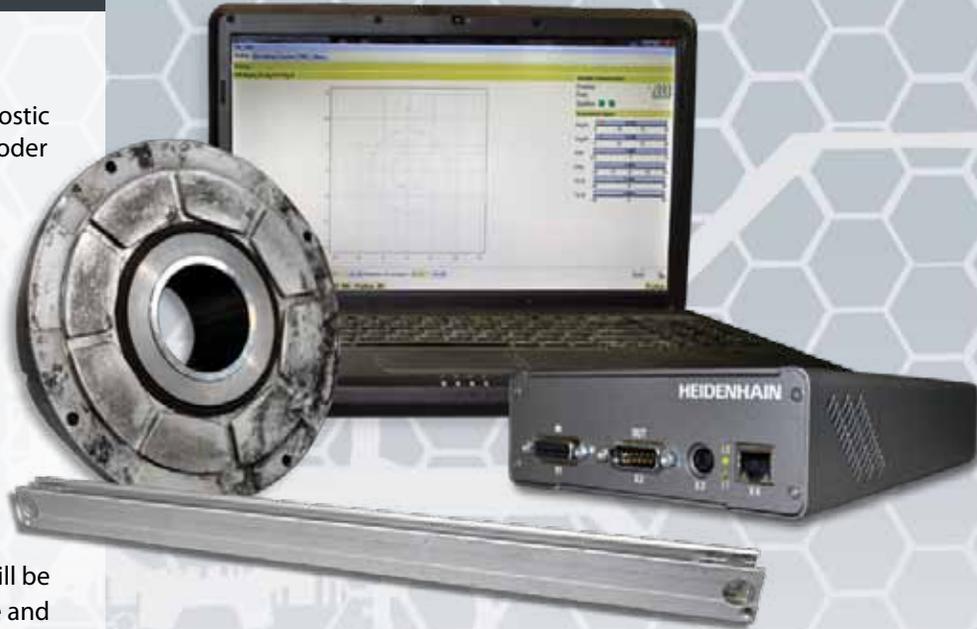
Encoder Sales, Service & Repair

Encoder Testing

Using a Heidenhain PWM 20 diagnostic tool, we can connect into your encoder and check the following:

- Signal strength (amplitude)
- Signal alignment
- Voltage output
- Pulse count
- Bit count for absolute encoders
- Ohm checking for cables

ISC Companies will clean and strip down your encoder removing any contamination. A determination will be made on the extent of the damage and the cost to repair. After the evaluation, ISC Companies will recommend a solution for rebuild or replacement. Our goal is to make your decision as easy as possible.



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Machine Safeguarding To Improve Your Bottom Line

ISC Companies wants to ensure you know the hazards of your equipment and how unsafe operation can affect employee safety, equipment life, process efficiency, and lead to substantial fines. We can guide you through the process of safeguarding your equipment to meet current OSHA standards and provide you with valuable information about the costs and risks associated with improper guarding. Through our vendor partners, we can arrange a complete safety audit of your equipment, which will identify potential hazards and verify the safety level at which your equipment should be guarded.

If you decide to take further action to safeguard your machines, ISC Companies can offer solutions and system components, such as hard-guards and electronic guards, which can upgrade the safety level of your equipment. »»

Risk Reduction Solutions

Risk assessments are designed to anticipate and reduce hazards that can result in worker injuries. Their systematic approaches can produce many other benefits, including:

- Increased productivity
- Improved quality
- Cost reduction
- Improved compliance
- Reduced liabilities

OSHA 29 CFR 1910 Subpart O Machinery and Machine Guarding

The OSHA standard states that any machine that creates a hazard must be safeguarded to protect the operator and other employees.

Machine Safeguarding



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