

**Customer:** Fehrer

**Location:** Gadsden, AL

**Time & Duration:** 7 weeks

Reference: Fehrer 160018 / 1.1.2



## Project Description

International manufacturer of automotive seats was required to increase their production capacity after obtaining a new contract. An automated and robotically controlled foam molding machine from Asia was added to their plant in Alabama. The electrical controls on this production equipment needed to be brought to US code and safety standards.

## Solution

- The work was completed in 7 weeks on schedule
- New production schedule was uninterrupted

## INP Tasks

- Review the equipment drawings and develop an engineering plan that will meet code and architecturally permit the necessary components and wiring to fit in the existing control panels
- Modifications included electrical and mechanical redesign including enclosure modifications
- The imported enclosures designs were built to IEC/CENELEC standards and were modified to conform to North American Regulations & Standards, including NEC-NFPA79, UL489, UL1066/77
- Bring a team of 6-8 electricians and site manager to the plant location for the work
- Overhaul and rebuild 12 imported control system enclosures
- Work included field installation and enclosure design re-working/re-fabrication, testing and commissioning

## Noteworthy points

- Compressed time for this re-work because of production demands
- Fast procurement of new replacement material
- Innovative design solution for both electrical & mechanical because of tight space restrictions
- Accelerated installation and start-up schedule and "turn Key" hand-over to limit production outages
- The work was completed in 7 weeks on schedule
- New production schedule was uninterrupted

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