


# >> Control

## Case Study



### Manufacturing of a Machine Safety Panel

A tailor-made solution  
for safety control  
for a global leader  
in the space industry

 Montreal  
Quebec

## The Challenge

The client, a global leader in the space industry, was tasked with developing a machine for component testing. However, this machine required a specific safety system to protect users during testing. The challenge was to design a safety control system that was effective, compliant with strict standards, and adapted to the complexity of the machine.



## The LM Solution

LM manufactured the panels for the machine safety system according to the engineering firm's design. After studying the requirements of the customer and the engineering firm, LM manufactured custom-made, unique panels. Each panel was designed to meet the customer's safety criteria, in compliance with CSA standards, while ensuring intuitive and secure control during use.

### Methodology and implementation steps:

- » **Analysis and design:** LM first analyzed the engineering firm's plans to ensure optimal manufacturing, focusing on the control logic required to guarantee maximum safety.
- » **Panel manufacturing:** Based on the engineering plans, LM manufactured the two control panels. Each panel was custom-made to ensure perfect integration into the machine and compliance with CSA standards.
- » **Installation and safety tests:** Once the panels were manufactured, they were installed in the machine and safety tests were carried out to ensure they were working properly, in accordance with the customer's requirements. Each step was followed to verify the system's compliance and effectiveness.
- » **Result:** The solution proposed by LM enabled the integration of two secure control panels that comply with CSA standards. These panels ensure maximum user protection during testing. Thanks to their specific design, the machine operates with enhanced safety while maintaining optimal performance.





## Customer Benefits

- » **User safety:** The control panels ensure increased safety, reducing the risk of accidents during demonstrations.
- » **CSA compliance:** Compliance with CSA standards enhances the credibility of the machine and user confidence.
- » **Improved performance:** The machine can now be used safely while maintaining maximum efficiency during testing.
- » **Long-term cost savings:** Thanks to the robust and reliable design of the panels, the customer benefits from a durable solution that requires less maintenance and reduces the risk of malfunction.

This case study demonstrates LM's expertise in customized control solutions that meet specific customer requirements while complying with the most stringent design standards.

This project demonstrates LM's commitment to providing innovative and sustainable solutions



Contact us today to discover how LM can transform your technical challenges into lasting success.



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