



## NAME OF THE PROJECT

Modernization of an Automated Industrial Packaging Machine

## FIELD

Food Industry

## LOCATION

Boisbriand

## YEARS OF

## ACHIEVEMENT

2025-2026

### Context

Our client aimed to modernize the safety systems of their automated industrial packaging machine (Pasmatic MSW 450/CW), as well as its variable frequency drives and servo motors, some of which had become obsolete or discontinued.

### Mandate

The project involved modernizing key machine components, including the replacement of 9 MSR (Minotaur) safety relays with GSR (Guard Safety Relays), upgrading 3 PF 40 drives to PF 525, and replacing 4 Kinetix 6000 servo motors with Kinetix 5700.

The existing code, which was highly customized and not aligned with standard programming practices, also required adaptation and restructuring.

### Tasks performed

- Ensure project follow-up and coordination with the client
- Supervise the electrical contractor's activities to ensure the quality of installations
- Implement the machine safety protocol
- Prepare the validation report to ensure system compliance and reliability
- Develop network and electrical plans, including the conversion of MSR safety relays to more recent GSR relays that meet current standards
- Perform PLC / HMI programming and integration for the control of the modernized machine
- Carry out the programming of collaborative servo motors

### Tools and methods used

- Electrical : AutoCAD
- PLC Allen-Bradlet : Studio 5000