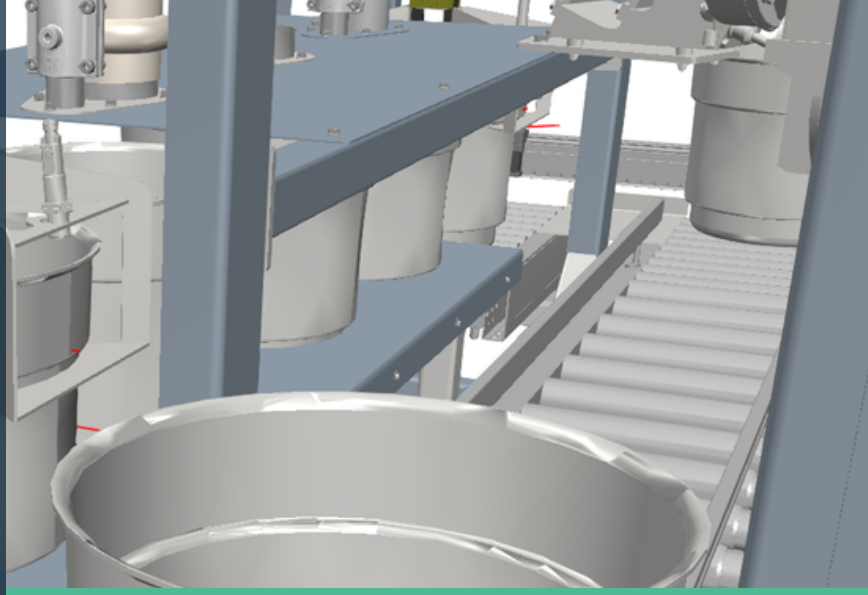
Selmo

AZO commissions a retrofit

Experience the Selmo Solution in action.



About AZO

The AZO Group is one of the most experienced companies worldwide when it comes to automatic raw material handling.

From engineering and the supply of individual components to the construction of complete turnkey plants, automation, assembly and comprehensive after-sales service, AZO, with over 70 years of experience in plant engineering, is an authority in automation solutions with a long-term perspective.

Industry

Plant engineering - automatic raw material handling

The Project

AZO commissioned a retrofit of an existing machine further to better understand the possibilities for modernization with the Selmo Solution. The current process of the machine was modeled in Selmo Studio and adapted to the specifications. Through virtual commissioning on a digital twin, possible improvements in the modeling became immediately visible. In addition, the easy handling of the process description and the resulting automatic generation of a complete and verifiable PLC program turned out to be a clear benefit.

01 Retrofit

02 Existing plant

03 Electrical system was converted to a Beckhoff control system.

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Machine details:

Stand Componenter Step, filling line in buckets with 3 different materials.

Brief project description:

- Preparation of the project in Selmo Studio based on the specifications
- Onsite workshop at AZO facilities to review the process modeling
- I/O mapping and virtual commissioning
- Kinematization of the provided step file
- Adaptation of the process through virtual commissioning with the digital twin

The Facts:

- 91 PLC in- and outputs
- 11 sequences with 134 steps modelled in the Selmo Studio
- 213 zones defined
- 15 constantly monitored zones
- 3 drivers
- 7330 lines of code
- 80 man hours

Services

Project Support through Selmo Services

AZO provided specific requirements for the existing machine's functions and processes. Based on this information, the Selmo team created a detailed model in Selmo Studio and presented the project in a workshop directly at AZO. Then, a kinematization was carried out using the 3-D model and virtually put into operation to identify possible optimizations. Adjustments to the process were implemented quickly and effectively, resulting in the successful commissioning of the modernized machine.

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