

Selmo

Velox Werk GmbH Retrofit of an automatic plate cutting plant

About Velox

For over six decades, the Carinthian family-owned company VELOX has been producing cement-bonded wood particleboard. The unique production technology and decades of know-how make VELOX construction and insulation boards unique and distinctive.

VELOX produces contemporary and high-quality building products and systems by combining technical quality with innovative technology and customer needs.



Services

Selmo Services

Industry

Construction products and systems

The Results

01

Increase in machine availability

02

Diagnostic capabilities of the plant achieved

03

Simplification of the operation of the plant

Contact us:
einfach@selmo.at

www.selmotech.com
Gewerbeparkstraße 1/1, 8143 Dobl-Zwaring



Brief project description

- Process of the existing plant recorded by video and mapped in Selmo Studio.
- Actuators and sensors taken from E-Plan and entered as a system in Selmo Studio.
- The new PLC code imported into Twin Cat 3
- Commissioning of the process logic software core in 5 days
- Plant produces after only a few days of commissioning

The Facts

- 236 PLC in- and 172 outputs
- 12 Servo axles
- 16 Actuators
- 5 Asynchronous motors
- 20 Sequences
- 254 Steps
- 330 Zones
- User interface
- ERP interface

The machine separates stacks of slabs with variable slab thicknesses per type and order. The slabs are composite panels made of wood chips and concrete. Depending on the type, the separated slabs are cut into variable strip widths and notched or drilled if required. The finished slabs are transported to stacking towers and stacked again to form strip stacks. Finished strip stacks are transported to strapping via chain conveyors and removed by a stacker.

The software implementation in the new TwinCAT 3 controller went smoothly, as did the IO check. The Selmo software fully monitored the machine from this point on, so in the first phase of the restart, many errors occurred due to inaccurate sensors. The original software did not monitor these sensors properly. This led to errors that were not visible and subsequently to long downtimes. The complete monitoring of the machine stopped this behavior.