

Project description

Control system modernisation with production data acquisition

on a multifunctional test automation device for battery production.
Client: **Accumation GmbH** in Limburg-Offheim.



Task:

- Mechanical overhaul of the existing system
- Renewal of the control cabinet
- Installation of up-to-date control system technology
- Direct connection of the test equipment to the control system (RS232, TCP), so that in future all test data is available within the control system. This data is then stored in a database (assigned to the respective battery).
- Minimisation of operator interventions thanks to an operator-friendly HMI and plant control system



All machine components can be operated interactively, directly in an assembly drawing of the machine.

Our solution concept:

Functional sequence:

The battery is subjected to a variety of tests at several successive stations.

The DMC code of each respective battery is recorded in the machine inlet, so that the test results can be assigned to the correct battery. The operator can easily monitor the current status of both the machine and the batteries.

In the event of a fault, the operator can restart production with little effort. Neither manual home position runs nor a removal of the batteries are required.

By tracking each part (via sensors), the machine control system detects the battery's exact position on the conveyor belt, including whether it has already been checked or whether it must be rejected at the end.

The machine also detects whether the corresponding stations require a home position run once a fault has been remedied. The latter takes place automatically and collision-free without any operator action being required.

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Operating concept:

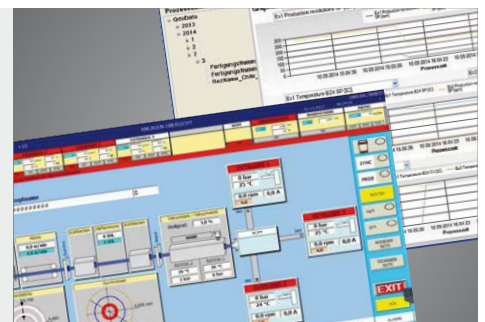
- ✓ All machine components can be operated interactively, directly in an assembly drawing of the machine.
- ✓ In the event of a fault, the faulty components are displayed flashing red directly in the system overview.
- ✓ To operate individual components in manual mode, it is only necessary to touch the corresponding actuator.
- ✓ The functionality of all sensors can be checked in the overview.
They are displayed together with the device designation used in the circuit diagram.

Our scope of services:

- Construction and planning
- Creation of AutoCAD drawings
(EPLAN 8 incl. Fluid / WSCAD / ELCAD)
- Plant production
- Control system equipment
- Commissioning up to the handover to production
- Employee training and operator instruction
- Complete documentation
- CE certification

Everything from a single source

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