

Client:

Volkswagen

Kategorie: Production control center.

Hand in hand: electromobility and modern control station technology



JST control station: Control room technology from JST - as here at the Volkswagen plant in Saxony - ensures smooth production processes in the manufacture of fully electric vehicle types for the global market.

“In the right place at the right time” – this could be the motto of the material control station at the Volkswagen plant in Saxony, which was technically and ergonomically equipped by Jungmann Systemtechnik for the requirements of the future. The central task of the operator team in Zwickau: materials management (MaWi), i.e. the planning and control of material movements within the factory.

Constant control of the automated processes

Michael Beier, the responsible sub-department head, sums up the importance of the control center with an illustrative example: “Volkswagen orders important modules for vehicle construction externally, for example a cockpit. As soon as these components arrive at the plant, we are responsible for ensuring that supplies are available as needed. These are largely automated processes, but they have to be constantly tracked.”

Every part of importance for the big picture

But what happens when monitoring of these processes cannot be performed due to a failure, when there are undetected deviations? “If a part is missing in a process as highly complex as vehicle manufacturing, the factory would stop,” explains Michael Beier. A scenario that can be ruled out thanks to state-of-the-art control station technology.

JST software takes over the active monitoring process

Analogous to the visionary electromobility products leaving the Zwickau plant, monitoring technology also meets the highest standards. Michael Beier cites one of the main positive effects of the new installation: “Whereas staff used to have to continuously check whether inventory was approaching a critical mark somewhere, the JST software now takes over active monitoring.”

Benefit through combination of essential components

This is made possible by combining different components. All necessary materials management systems can be flexibly called up with the intuitive MultiConsoling® control technology, both on the new large display wall and at the individual workstations. It is no longer necessary to keep a constant eye on the stock. The JST monitoring software takes over exactly this task.

Alerting - visual and event-controlled

Thanks to predefined reference values, the PixelDetection® software alerts the control station team as soon as there are any deviations. The entire operator team receives event-oriented visual signals via the AlarmLight, with which the ergonomic Stratos X11® control room consoles and the video wall are equipped. No alarm is lost anymore.

Intuitive handling of the control technology

The handling of the control technology also played a decisive role in setting up the MaWi control station. “We wanted to be able to map the different systems clearly and flexibly, without changing workstations,” reports Michael Beier “That’s exactly what we can now do with MultiConsoling®.” Another advantage: “In the past, the workstations had to be set up anew each time there was a shift change. Today, every user has his or her individual dashboard saved and can call up his or her desired arrangement in a flash,” says Beier. This is made possible by the JST CockpitView® software solution, which was developed by JST specifically for workstations that are used by different employees in shift operations.

"The future is ready. Get on board."

Conclusion for Michael Beier: “We have achieved significant improvements with regard to the quality of

work – this is also supported by the feedback from colleagues.” And so the maxim of Volkswagen’s Zwickau site in Saxony now also applies “behind the scenes”: “The future is ready. Get on board.”

Control station before and after the conversion



"We wanted to be able to map the different systems clearly and flexibly, without any change of location. Genau das können wir nun mit dem MultiConsoling® realisieren."

Michael Beier (right) / Rico Trautmann

Subdepartment Manager Material Control Center (Volkswagen)
/ Technical IT project manager (Volkswagen)

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The components used in this project:



DisplayWall with special S-PVA panels for reliable 24/7 operation - optional with proactive alarm function



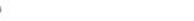
MultiConsoling® System – complete control room system for workplace, monitor wall and other systems



myGUI® user interface - in the intuitive 3D design of your control room for maximum user comfort



Stratos X11® control room desk – optional with height adjustment and proactive AlarmLight system



Controller control room chair - optimized for 24-hour use



PixelDetection® – proactive alarm software to shorten response times



JST CockpitView® – dashboard function to compile the most important systems on one monitor

Other projects with a similar task



Volkswagen FIS control room, Wolfsburg

Volkswagen

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Audi (MMS-control center), Ingolstadt



Audi Vorsprung durch Technik

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