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Management Information System (MIS)





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The Management Information System (MIS) is a software package developed by Valk Welding in which companies have full real-time insight into what is happening with the robotic installations that are in production. From a PC, mobile or a tablet, on the production floor or on the road.

Companies with multiple welding robots in use want more and more insight and control at the management level on both performance, process progress, maintenance, and welding data. This data is needed to make timely adjustments to the process and aids in increasing efficiency, and it is needed to record welding quality for each product. The second generation of the Management Information System (MIS) that Valk Welding has developed for this purpose provides the solution.

The main reason for Valk Welding to further develop the Management Information System (MIS) is that the number

of customers with multiple welding robots in use, has risen sharply. In line with this, the need for more control over production has also increased.

- When and for how long is a robot at a standstill?
- What is the reason for the downtime?
- How high is the robot's duty cycle?
- Do the cycle times match the time study?
- Can I collect and record welding data?

These are all examples of data that the production management wants to be able to manage. The ability to collect and record all welding data also offers a solution in terms of product liability.

MIS runs on ROSE (Robot Object SErver), on which the Valk Welding Shop Floor Control (SFC) solution also runs.

Full insight and control of your welding robot systems with MIS.

Real-time data from the server

The data from the robot controls is transmitted in real time to the central server, enabling monitoring, data analysis, traceability, and data logging. MIS visualizes this information in the form of graphs and tables. Valk Welding has developed several widgets that allows companies to put together their own dashboard, specifically tailored to the company's needs.

Monitoring

Companies receive a dashboard with a complete overview of annual totals across all systems. These annual totals include the number of hours, turn-on time, welding hours, number of programs processed, welding wire consumption, and so on.

Robot Analysis

- A complete and up-to-date overview of Key Performance Indicators (KPIs) for each individual welding robot system.
- A detailed overview per period.
- Daily insight into log data including any deviations that may have occurred.
- Detailed analysis options.

Product traceability

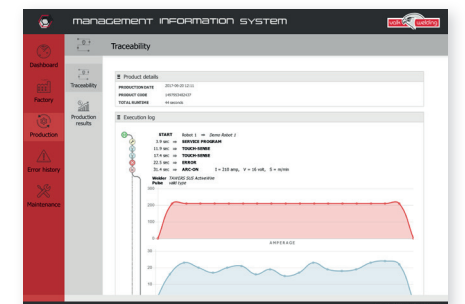
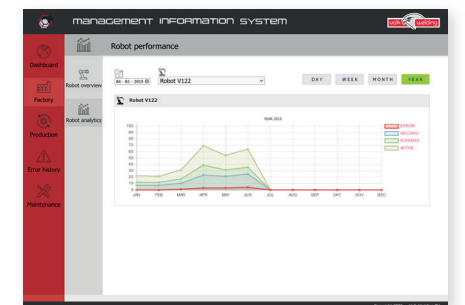
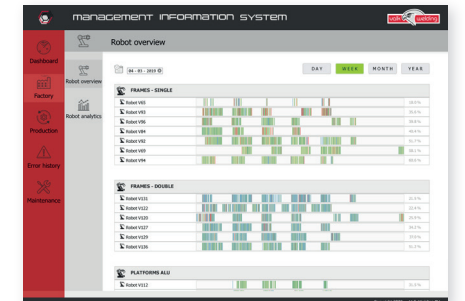
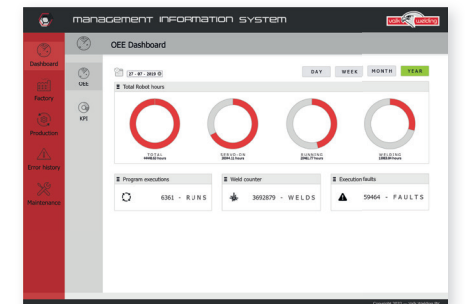
All data can be retrieved at product level and over a specific period. Based on this data, the product can be checked before it goes to the next step in the production process. A data log is recorded for each product. The data log includes a series of welding data in chronological order.

Service management

MIS provides insight into the condition of the installation so that companies can perform preventive and timely maintenance. For example, consider the amount of pressure that is on each axis of a robot. In this way, it becomes clear which axis requires preventive maintenance.

Support by Valk Welding

MIS has been fully developed in-house by Valk Welding and is therefore directly supported by Valk Welding.



Advantages of MIS:

- More insight and control of performance.
- More insight into and control of the process
- More insight into and control of welding data
- More insight into maintenance
- Increases efficiency
- Provides solution in terms of product liability
- Good monitoring of annual totals

The strong connection



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