Digitalization in the Industrial Sector

Industry 4.0, Big Data, Internet of Things. The terms and buzzwords for networked and intelligent production are manifold. Key elements are acquisition, evaluation, and visualization of data. Sources of data as well as areas of applications are virtually unlimited.

Linking of machines to IT systems

Based on extracted data, these IT systems are able to create relations which allow prognoses or trends about machine or tool wear, product quality, or power consumption.

SOMA – The Industry 4.0 Software Platform

With SOMA, softgate provides a modular software platform for many different areas of application. Whether individual machines in retrofit or entire machine clusters – any machine that delivers data by nature or maybe by retrofit sensors can be connected to SOMA by plug and play. By using the latest web technology and safety technology, worldwide access to your recorded and analyzed production machine data is possible.

Digitalization: from Vision to Live Operation

1. Vision
We can advise you on the implementation of your vision of digitalization. Whether you have concrete approaches or generic projects – our experts will find the right path for you.

2. Scaling
Based on our modular SOMA platform, we scale and configure your individual Condition Monitoring & Predictive Maintenance solution for your machine tools.

3. Data Acquisition
SOMA will acquire, process, and store your machine data. SOMA Analytics then can visualize and forecast these data.

4. Analyses & Tendencies
In cooperation with your process owner, our technologists will configure your desired visualization display and define the alert threshold and notification value.

SOMA now is able to visualize the current condition of your machine in a meaningful way, to present a trend analysis, and to recommend actions.

5. Maintenance and Support
After successful delivery, our maintenance and support concept guarantees comprehensive consulting and engineering services to support and optimize your individual solution.
Predictive Maintenance and Condition Monitoring

Traditional maintenance approaches, such as the regular maintenance period defined by the manufacturer, very rarely reflect the actual condition of the machinery. Different areas of application or intensities have a great impact on the lifespan of any machine.

Predictive Maintenance and Condition Monitoring detect problems and solve them by pinpoint maintenance. Predictive Maintenance and Condition Monitoring thus avoid downtimes and production losses.

Our scalable SOMA platform offers a solution for this.

Energy Monitoring

Energy management according to ISO 50001 offers companies various saving potentials. Energy monitoring is a fundamental element of energy management. This operative component collects and processes the necessary measuring point data for analyses.

Alert Management

Machine data processed by SOMA can be monitored and be compared to threshold values. By linking them to individual messages always keeps you informed about the condition of your machines with pinpoint accuracy.

Quality Control

SOMA supports your product quality control by continuous logging of your process data and by comparing these data with corresponding reference data. Providing standardized interfaces guarantees a cost-efficient integration into your IT-System.
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