Press release

Energy management by Dürr to ISO 50001

DXQenergy.management enables production resource savings

**Bietigheim-Bissingen, 22** February **2023 –** In light of increasing energy costs and stricter environmental regulations, significant reductions must be made in industrial production resource consumption. Dürr’s ISO 50001-certified energy management solution can help with this. DXQenergy.management provides plant operators with a transparent overview of energy and media consumption across the entire production plant, making it possible to quickly identify primary consumers at the plant level.

What are a production plant’s electricity consumption trends? How much solvent does each workpiece require? Is there a noticeable increase in water consumption? Plant operators need answers to these and many other questions – especially in energy-intensive sectors like car manufacturing – to reduce energy consumption, CO2 emissions, and operating costs. Dürr’s energy management solution DXQenergy.management transparently displays the necessary data to the user in clearly arranged dashboards. Various views are available to quickly see relevant gas, electricity, water, paint, or solvent consumption for the entire plant or select areas like individual process lines. Thus, the production plant’s different user groups get information with the precise level of detail they need.

Informative key figures

DXQenergy.management continuously monitors the data recorded by the linked sensors and saves this data in a central location. However, pure consumption values like robot electricity consumption are of limited use for analyzing and optimizing the energy efficiency of machines and processes. DXQenergy.management combines consumption and production values to provide insightful key figures like electricity consumption per produced body.

Detailed data analysis

The central consumption cockpit with individual gauge as appropriate to the type of energy and medium allows plant operators to comprehensively evaluate the measurement infrastructure’s data. For example, hot water can be displayed in liters to compare consumption during different periods. Current consumption value can also be compared with an earlier one, or a defined nominal value. Alternatively, hot water can be specified in kilowatt hours to represent the energy required for heating. The following applies to all relevant consumption figures: They can be represented in various units and for different periods for each type of medium and each process area up to the sensor level. Thus, users can see if everything is running in the green zone or if one specific consumption item is too high, as signaled by a red indicator. They can then quickly identify the primary consumers at the plant level using DXQenergy.management and, thanks to the detailed evaluation, analyze down to the individual sensor where exactly plant resources are being wasted.

Efficient switching

Automatically switching all systems along the entire process chain reduces energy consumption and manual effort. This function stores operational work time models so that the machines switch on automatically in good time before work begins, are scaled down during break times and are reliably switched off at the end of the workday. Manual intervention is still possible if unplanned changes occur.

DXQenergy.management is suitable for all industry sectors and can be retrofitted to existing plants with network-compatible sensors. HOMAG, one of the world’s leading providers of integrated production solutions in the woodworking industry and trades, is already using the software at its Schopfloch site. The energy management solution has also completed TÜV certification there, according to ISO 50001.

Pictures

  
Picture 1: **DXQ**energy.management transparently displays the necessary data in clearly arranged dashboards.

  
Picture 2: HOMAG is already using the software at their Schopfloch site.

The Dürr Group is one of the world's leading mechanical and plant engineering firms with extensive expertise in automation and digitalization/Industry 4.0. Its products, systems and services enable highly efficient and resource-saving manufacturing processes in different industries. The Dürr Group supplies sectors like the automotive industry, mechanical engineering, chemical, pharmaceutical, medical technology and woodworking industries. It generated sales of €3.54 billion in 2021. The company has almost 18,400 employees and 120 business locations in 33 countries. The Dürr Group operates in the market with the brands Dürr, Schenck and HOMAG and with five divisions:

* **Paint and Final Assembly Systems**: paint shops as well as final assembly, testing and filling technology for the automotive industry, assembly and test systems for medical devices
* **Application Technology**: robot technologies for the automated application of paint, sealants and adhesives
* **Clean Technology Systems**: air pollution control, noise abatement systems and coating systems for battery electrodes
* **Measuring and Process Systems**: balancing equipment and diagnostic technology
* **Woodworking Machinery and Systems**: machinery and equipment for the woodworking industry

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