Press release

Smart software DXQanalyze impressed the jury in all categories

Dürr wins Microsoft Intelligent Manufacturing Award

Bietigheim-Bissingen, 28.02.2022 – Dürr has been successful in the Microsoft Intelligent Manufacturing Award, taking the overall prize with the software products from the DXQanalyze family. The smart software gathers available production data and evaluates it in order to develop appropriate actions to optimize production. Using machine learning, the software can deduce unknown correlations and patterns and identify potential faults in advance.

The Microsoft Intelligent Manufacturing Award (MIMA), organized by Microsoft Germany and the management consultancy company Roland Berger, honors companies that are making a valuable contribution to the future of industry through innovative ideas and solutions. Prizes are awarded in five categories. There is also an overall prize for the company that impresses the jury across all categories. This year, Dürr Systems was named the overall winner for its **DXQ**analyze software products. “Winning the Microsoft Intelligent Manufacturing Award not only makes us very proud, but also strengthens us in our vision of a fully digitized paint shop,” says Dr. Jochen Weyrauch, CEO of Dürr Systems AG, pleased with the outstanding performance.

Gather, evaluate, predict

The products from the **DXQ**analyze family gather available machine and plant data, like process and workpiece information, and evaluates it. Possible quality defects in workpieces as well as imminent wear on plant components can be identified at the point of origin, and appropriate actions can be defined. The data is visualized and can be historically evaluated over long periods of time, in some cases in real time. In combination with machine learning, large amounts of data including historical data can be used to continuously make accurate forecasts for the future. This is where the application **DXQ**equipment.analytics comes in. **DXQ**plant.analytics analyzes the data and the documented workpiece quality on a superordinate level, and in this way can draw conclusions about the operation of individual systems along the value chain. Historical data on workpiece quality is used as a basis for defining patterns and establishing correlations to machine and system states. In this way it is possible to adjust the plant operation at an early stage in order to increase the painting quality in production.

**Machine learning ensures greater transparency**

Using machine learning methods, the software products can identify and predict wear on components and anomalies in production systems on the basis of rules and data. This takes transparency about the operating behavior of machines and systems to a whole new level. **DXQ**analyze provides information based on specific systems and uses, enabling it, for example, to forecast the remaining service life of system components or establish links between quality results and machining processes.

Contribution to digitization impresses jury across all categories

The award focuses on products that offer pioneering solutions for industrial production. In a selection process consisting of several stages, **DXQ**analyze impressed the jury across all categories: “What is impressive about the Dürr solution is the level of maturity already demonstrated by the AI and the forecasting of anomalies. This technological development will permit enormous cost savings. Production plant failures will be reduced as well as material rejects,” says jury member Prof. Dr. Oliver Niggemann of the Institute of Automation Technology at the Helmut Schmidt University / University of the German Federal Armed Forces Hamburg, in praising the smart software.

The software can be used in new and existing systems, depending on the application. Installation on individual systems (on edge), in a company’s internal network (on premise), or in a cloud environment is supported. The software can be integrated in different IT systems and adapted to customers’ different architectural requirements.



Picture 1:Products from the DXQanalyze family gather and evaluate available data.



Picture 2: Gerhard Alonso Garcia, Vice President MES & Controls (left), Dr. Simon Alt, Manager MES & IIoT (center), and Walter Schubert, Manager Business Development & PreSales Digital Solutions (right) see the award as an acknowledgment of their work.



Picture 3: Smart software DXQanalyze impressed the jury in all categories

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 around 17,800 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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