

Industry 4.0: At HM24, MHP will present new solutions and approaches designed to take production in companies to a new level (photo: Adobe stock)

PRESS RELEASE

**MHP at Hannover Messe 2024 #HM24**

18th April 2024

# AI solutions for modern production

- MHP is the Platinum Partner of Amazon Web Services (AWS) in Hall 15, Stand D76
- Highlights include innovative showcases, e.g. on the industrial use of generative AI and the industrial metaverse
- Premiere of the new software solution bolt\_it in the quality assurance field from the Industrial Cloud Solutions (ICS) division
- One year of ICS: all six SaaS products from MHP are being used by leading companies including Porsche and Philips

**Ludwigsburg** – The Industry 4.0 Barometer 2024 recently published by MHP found that Chinese businesses are using AI-based solutions in their production processes sometimes more than twice as often as their European competitors. Areas of application are diverse, ranging from quality management to improving resource efficiency. Sixty percent of the companies surveyed predict that AI will have a significant impact on the future design of manufacturing processes. There is no doubt that the importance of AI-based tools is increasing – the challenge now is to find suitable areas of application and solutions.

## MHP will present modern solutions at Hannover Messe

Some of these solutions will be presented by MHP management and IT consultancy at Hannover Messe, the world's leading international trade fair for the industry, on April 22–26, 2024. At the fair, MHP's employees will explain everything visitors need to know. They can be found in the area of strategic partner AWS (Hall 15, Stand D76). As a special highlight, MHP will also present some highly innovative showcases that demonstrate how modern technologies can help companies successfully drive forward the digital transformation and operate more cost-efficiently, flexibly, and sustainably. In particular, this involves redesigning manufacturing and revolutionizing production processes in order to pave the way for the production of the future.

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## **Premiere at #HM24: new AI-based product bolt\_it**

A large amount of added value is based on screw processes in assembly. Current challenges are primarily late problem detection, the extensive effort involved in manual rework or analyzing defective parts, and lack of knowledge transfer for future prevention of problems.

With the intelligent SaaS solution bolt\_it – one of the new developments in MHP's Industrial Cloud Solutions (ICS) portfolio – companies can monitor process data and detect anomalies at an early stage by analyzing historical data. Process control is based on indicative guidelines, expert knowledge, and known errors – these are evaluated and precisely analyzed by AI, which then transmits the data to quality engineers and factory and production workers. This enables companies to save costs and time, while transparent data results in higher quality in production.

Automobile manufacturer Porsche is already successfully testing the bolt\_it software solution. The quality of screw processes has been significantly increased with bolt\_it: process anomaly detection is seven times greater and screw processes need up to 70 percent less rework. In addition, around 90 minutes per week can be saved for manual data analysis and parameter optimization for each production line. MHP is currently developing four more add-ons, including for automatic error classification and for data-based process recommendations. The bolt\_it SaaS solution is one of six products from the new Industrial Cloud Solutions (ICS) division, which was presented at Hannover Messe last year for the first time. The solution is now being used by leading companies including Porsche, Philips, Faurecia, and Jungheinrich.

## **Modern planning and simulation with the industrial metaverse**

With its demonstrator "AAS meets Industrial Metaverse" MHP will present an implementation of the digital twin approach based on Asset Administration Shell and NVIDIA's Omniverse. Asset Administration Shell forms the basis of the digital factory in the industrial metaverse – including planning, simulation, and operation of facilities and processes throughout the entire lifecycle. Together with the industrial metaverse, the open standard creates genuine interoperability and scalability. This enables companies to combine 3D designs and CAD applications so that, for example, they can design virtual products based on a single point of truth and produce them in a virtual environment. This digital twin can be combined and expanded with IIoT data systems and industrial automation tools.

Alongside showcases, MHP will address current debates in individual presentations:

- on Monday April 22, speakers will present the use of the SaaS portfolio with the aid of practical examples from Philips, Porsche, and Faurecia (12:00 pm to 12:30 pm, AWS Theatre).
- On Tuesday April 23, the focus will be on the use of process data at Porsche for more cost-efficient production processes (5:00 pm to 5:30 pm, AWS Theatre).
- The final presentation will be on Friday April 26. Our speakers will examine how companies can implement the digital transformation and thus support the 1.5-degree target (10:30 am to 11:00 am, Industrial Transformation Stage).

Visit us in the AWS area at Hannover Messe 2024: Hall 15, Stand D76. You can talk to us and many of our network's exclusive partners such as NVIDIA, Snowflake, and AWS about your questions and concerns and find solutions with us. Further information about our appearance at the trade fair is also available on our website: <https://www.mhp.com/de/hannover-messe-2024>.

Would you like to spontaneously arrange a meeting with one of our experts? Contact us any time at [publicrelations@mhp.com](mailto:publicrelations@mhp.com). We look forward to seeing you!



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## About MHP

As a technology and business partner, MHP has been digitizing the processes and products of its around 300 mobility and manufacturing sector customers worldwide for 27 years and providing support for their IT transformations along the entire value chain. For the management and IT consultancy, one thing is certain: digitization is one of the biggest levers on the path to a better tomorrow. This is why the Porsche AG subsidiary provides both operational and strategic consulting in areas such as customer experience and workforce transformation, supply chain and cloud solutions, platforms and ecosystems, big data and AI, as well as Industry 4.0 and intelligent products. Headquartered in Germany, the consultancy operates internationally with subsidiaries in the USA, the UK, Romania and China. Around 5,000 MHP employees are united by their pursuit of excellence and sustainable success. It is this aspiration that will continue to drive MHP - today and in the future.

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