

YOUR SOLUTION for Digitalization & Industry 4.0 at the LIGNA 2017

INDUSTRY 4.0: The step into the digital future.

WORLD PREMIERE:

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Hall 14



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YOUR SOLUTION for the digital world.

The step into the digital future.

The demand for individual products at attractive prices continues to shape the furniture industry. To be successful, what's needed is a partner which is capable of **thinking in terms of solutions** and provides a high standard of advisory expertise. This is precisely what HOMAG has to offer: Many furniture manufacturers are already working successfully in the marketplace with **“networked production”**. The next challenge is to move a step closer to the **“Factory of the Future”** and the **“Industry 4.0 vision”**. Achieving this will enable the production of the future to respond flexibly to market changes or customer demands – in constant dialog with suppliers, partners, sales teams and customers.

How can a company improve the energy and resource efficiency of its production? Where are raw materials favorably priced and where can supply bottlenecks be predicted? At the same time, products continue to be optimized and adjusted to requirements. A **permanent exchange of data** will turn production into a **continuously improving process** in which products, machines and resources control each other. For this to happen, **standardized interfaces and standards** are vital for data exchange. LIGNA visitors to the Homag booth will find out how **smart production can be from May 2017**.

Leading in production efficiency.

NEW!

Smart solutions.

Digitalized production has long since made its entry into the industry. HOMAG is continuously developing new digitalization solutions – always with the aim of making production even more efficient for furniture manufacturers and offering them new optimization potential. To do this, HOMAG offers a range of smart solutions for the factory, for product configuration and for servicing.

- **Smart Factories**

“Smart products” allow end customers to configure their kitchens individually, for instance. Just a few days later, their kitchen can be delivered ready to install. This is achieved using software at whose core is **an MES for production control** (Page 6).

- **Smart Products**

Working with the smart factory, the organization of production plants and logistics/transport systems is growing increasingly autonomous. Smart machines **support the operator** performing daily tasks. With additional **production optimization**, operating times can be organized more flexibly and efficiently.

- **Smart Services**

With smart solutions, HOMAG can help enhance plant availability. Machines are serviced using **Predictive Maintenance**. If an error occurs, remotely located servicing experts can offer support. As a result, today 90 % of service incidents are dealt with at HOMAG online.



Fig. 1: Today, HOMAG servicing personnel are able to solve 90 % of service cases online

New HOMAG software platform.

NEW!

End-to-end solutions from the point of sale to production.

HOMAG has completely revised its software portfolio for customers. On show for the first time at the LIGNA, HOMAG will be demonstrating how to configure individual solutions for woodworking shops and industrial producers from a modular suite – “One Platform for Integrated Solutions”. The focus here is on end-to-end solutions from sales through to furniture completion.

MANAGING!

For catalog-oriented manufacturers (kitchen, office, living room and bathroom furniture), the “Configurator3D” forms the nerve center of graphic order acquisition. This 3D product configurator is used to configure and process highly individual furniture orders in just seconds – in an unlimited choice of variants. The automatic generation of production data means that complexity remains manageable at all times.

CREATING!

There are now no limits to creativity at the point of sale. With the furniture design software “Designer3D” and the Internet configurator “DesignerWEB”, HOMAG is offering software solutions for every sales channel – dealers, direct sales and web shops. Comprehensive libraries of decor articles and electrical appliances allow joiners or industrial furniture producers to plan complete furnishing scenarios and then present them using virtual reality apps (such as Google Cardboard) to create a truly graphic customer experience. “Designer3D” uses the data from the “Configurator3D” – allowing all plans to be adopted directly by the production system.

PRODUCING!

Perfect, efficient organization and absolute production process transparency are achieved using the new manufacturing execution system “ControllerMES” (see page 6). Adjusted to the relevant production system, the software provides support in the precise planning and monitoring of production and in organizing information flows. The cutting optimization software Cut Rite runs on a fully integrated basis. Information is made digitally available to production at all times to aid the simplification of manual work steps. The add-on software MMR Office (Machine Monitoring & Reporting) ensures machine status transparency and permits continuous process optimization.



Fig. 2: A world premiere will be celebrated at the LIGNA: HOMAG will be showcasing a new software portfolio

Manufacturing execution system “ControllerMES”.

NEW!

Transparent organization of production processes.

Successful networking calls for a matured, solid software basis. With the new MES platform, users are ideally placed for the future thanks to modern software architecture. The new manufacturing execution system stands for 100% production transparency and is based on established powerTouch operating technology. It encompasses everything from ...

- ... production planning with optimum production batches
- ... through the provision and generation of production data for machines (sizing, edging, CNC ...)
- ... to completed notification after final assembly.

Relying on “ControllerMES” means significantly increasing

... transparency, efficiency and control
... and supporting the optimization of production processes.

The software enables the perfect interaction of HOMAG machines in networked production. “ControllerMES” was designed by the developers at HOMAG as a flexible standard software. It is up to 100 % updatable, scalable and offers the right solution both for woodworking shops and industrial enterprises.

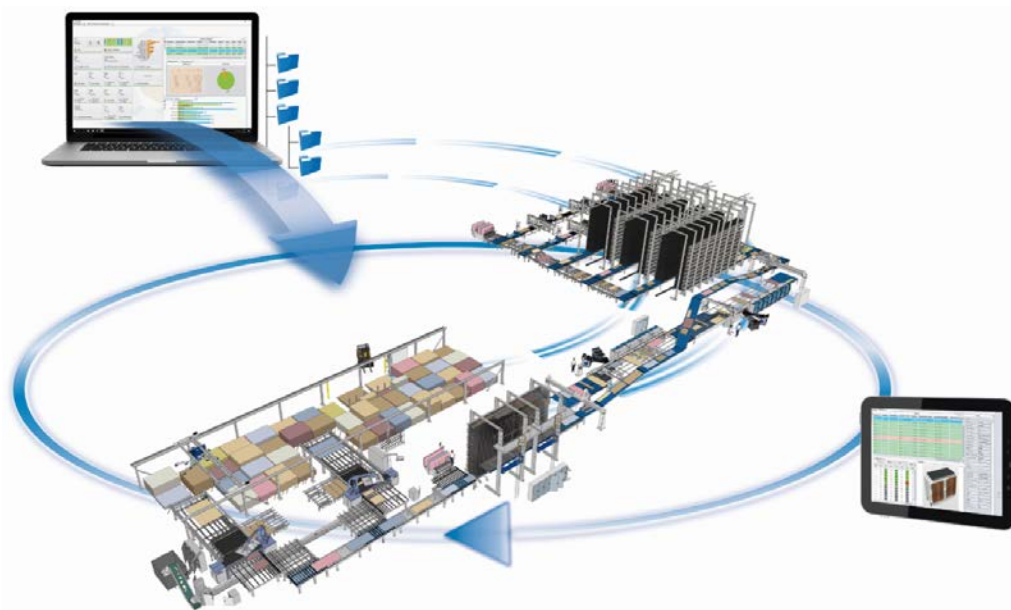


Fig. 3: With the new MES platform, users are ideally placed for the future thanks to modern software

Pictures

Pictures courtesy of: HOMAG Group AG

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