

**PRESS RELEASE**

* **At the K Show, Wickert Maschinenbau transmits live production data from elastomer presses via OPC UA interface**
* **Global market leader also exhibits machine technology of cleanroom presses**

*Landau, Germany, August 25, 2022.* Wickert has defined two focus topics at K 2022: Industry 4.0 connection of press systems via OPC UA interface and plastics processing in the cleanroom. On display will be real-time data from the production of molded rubber parts. A press will be used to illustrate the special features of cleanroom technology.

Moreover, the machine manufacturer will inform attendees about its range of services relating to the planning and development of press systems used to process elastomers, composites, powders/plastics, and for the production of friction linings. Services range from concept and feasibility studies to complete planning and general contracting for turnkey solutions for complete production lines.

Wickert Maschinenbau will be exhibiting at the K Show in Hall 14, Booth 14A41, from October 19-26.

**Real-time values from elastomer presses via OPC UA interface**

At the show, Wickert will demonstrate how data on temperature, press pressure, and vacuum from several elastomer presses is transmitted live via an OPC UA interface. The data originates from the ongoing production of a German customer.

In the future, the machine manufacturer will offer the cross-platform data exchange over the standardized interface as an option for all press systems in compliance with the current VDMA standards "OPC UA for Machinery". The solution incorporates the entire installation up to the data transfer point.

From there, information can be easily integrated into production control systems, so-called Manufacturing Execution Systems (MES), enabling central monitoring and control of production in real-time.

It also gives production managers a clear overview of the most important machine data. All common dashboards and browser-based end devices can be used by the customer as an output platform for immediate visualization.

**Sixty presses of different generations retrofitted via OPC UA**

Older machines can also be retrofitted, whereby the expenditure depends on the age of the machine control system. Most recently, over a period of three months, Wickert retrofitted 60 presses of different generations with a standardized data exchange via OPC UA for a customer.

This involved bringing all the systems up to a standard technological level, linking them in the customer's network, and connecting them to the central MES.

For one thing, this standardized operation of all machines. Moreover, the customer can now record all process values of each press centrally. Analysis of the values means production can be streamlined and optimized.

**Special features of cleanroom presses**

At its booth, the global market leader for pharmaceutical and cleanroom presses will be exhibiting a system to demonstrate the design, equipment, and special features of the technology. In particular, the machines, all of which are customized, are used in manufacturing medical products, in the production of computer chips, and in research.

To prevent particle emissions to the greatest possible extent, the inside of the presses is designed entirely of stainless steel or aluminum. The work area is also encased in a self-supporting enclosure, also made of stainless steel.

Pneumatically driven safety doors direct clean air through the press minimizing particle counts. On top of that, all machine components requiring auxiliary fluids and lubricants are encapsulated, avoiding contamination.

Partial or complete automation of production processes can be implemented to reduce the risk of human contamination. For example, this would include integrating collaborative robotics and handling solutions

**About Wickert Maschinenbau GmbH**

Wickert Maschinenbau GmbH is a medium-sized, family-owned company based in Landau in Germany. The company is active in the development and manufacture of hydraulic presses and fully automated press systems. All machines and systems have a modular structure and feature pressing forces of between 20 and 100,000 kN, with a customer-specific layout in each case. The provided systems are used to process elastomers, composites, plastics and powder materials. Their application not only include the production of pharmaceutical sealing plugs, but also the production of safety parts in automotive brake systems and bi-polar plates for fuel cells. Other applications for Wickert presses include e-mobility, laboratories and research facilities.

Partners and executive directors Hans-Joachim Wickert and Stefan Herzinger manage the family-operated company that was founded in 1901, which manufactures exclusively in Landau and supplies its customers from there to locations in Europe, the Americas and Asia. In 2021,190 employees generated revenue of around € 45 million.

**Images:**

Ein Bild, das drinnen enthält.

Automatisch generierte Beschreibung

Image 1:

At its booth, the global market leader for pharmaceutical and cleanroom presses will be exhibiting a system to demonstrate the design, equipment, and special features of the technology (image: Wickert).



Image 2:

Example of live data of a press with values for temperature (green), position (red) press pressure (blue). At the K-show, Wickert will demonstrate how data on temperature, press pressure, and vacuum from several elastomer presses is transmitted live via an OPC UA interface (image: Wickert).

**You can also download the text of the press release as a Word document and the images in print quality from** [**https://www.auchkomm.com/aktuellepressetexte#PI\_474**](https://www.auchkomm.com/aktuellepressetexte#PI_474)

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