Press release

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Solutions for the complete process: Hainbuch presents news for change-over, clamping, measurement and automation at EMO.

At EMO 2023, Hainbuch will present itself as a full-range supplier for change-over, clamping, measurement and automation. Visitors to the trade show can see for themselves the intelligent solutions for the entire manufacturing process with exciting live demos.

Hainbuch is presenting itself with a new self-image at EMO 2023 in Hanover: "Today, we are a solution provider for the entire process: change-over, clamping, measurement and automation," is how Stefan Nitsche, Division Manager Main Products, describes the company's range of competencies. Of course, clamping technology and set-up time optimization are and will remain at the heart of the specialists for high-precision clamping solutions from Marbach. But with the acquisition of Vischer & Bolli Automation almost three years ago, Hainbuch has rapidly expanded its expertise in the field of automation. "Today, we support our customers throughout the entire process," Nitsche describes the further development. "From workpiece loading and clamping device set-up or change-over, to clamping the workpieces, to quality control through measuring processes. We are at the starting line with solutions for all process steps, whether manual or automated."

Change-over: quick change-over solutions accelerate the process

Change-over solutions from Hainbuch - be it the Hainbuch system or the quick change-over system centrotex - are easy to handle, save valuable time and thus costs. For the centrotex quick change-over system, Hainbuch is now presenting another addition at

Press release

EMO: a new 3-jaw chuck. In addition to the Toplus and Spanntop chucks for O.D. clamping, the Maxxos and Mando mandrels and the compensating 4-jaw chuck, the 3-jaw chuck with its very low installation height completes the range of clamping devices. This means that the clamping device can be changed over in less than 1 minute - without alignment. This means even more flexibility in the machining process for small batches with frequent clamping device change-overs. Another highlight: a new storage and handling system for centrotex products. With the pallets, holders, transport carts and the set-up hoist, the products can be stored and handled cleanly and easily. This also saves valuable time.

Clamping: Safe and rigid clamping ensures maximum process reliability.

The invention of the Spanntop chuck in the 70s marked the beginning of a new era in workpiece clamping. Since then, new and improved solutions have continuously followed, which are now copied worldwide. The hexagonal geometry of the Toplus chuck was then also transferred to the Maxxos mandrel to ensure even greater rigidity at higher transmission forces. At EMO, Hainbuch is now presenting the Maxxos T212 mandrel for the first time. Compared to the proven Maxxos T211, the T212 without draw bolt with new improved technology is ideal for workpieces with blind bores or very short clamping lengths: No clamping length is lost due to the draw bolt. Thanks to the hexagonal pyramid shape, the Maxxos is the mandrel for the most demanding machining and promises 25% higher holding force than the round mandrel and in some cases double torque transmission.

Measuring: Stable processes thanks to integrated measuring technology

The process does not end with the machining of the workpiece. Continuous measurement and control of the workpiece quality guarantees process stability.

On the one hand, this can be done in separate measuring steps outside the machine, but in-line measurement is often more cost-effective and time-saving. The clamping devices with integrated measuring intelligence from Hainbuch make such in-line measurement possible. They continuously measure workpiece diameter, temperature, workpiece contact and clamping force. Via contactless data and energy transmission, the measurement data is directly relayed to the machine controller where it is analyzed. The controller executes a setpoint comparison. If there are deviations, a message is issued or a correction is initiated immediately. With the intelligent IQ clamping devices - available both as a chuck for O.D. clamping and as a clamping mandrel for I.D. clamping - Hainbuch increases machine availability and process capability and reduces the upstream and downstream measuring processes. This increases quality and ensures a constant level.

Automation: Also works for small series and single-part production

Workholding technology is the logical starting point for successful automation: It simplifies processes and often also saves process steps. Particularly in the case of small series and single-part production, the change-over effort often reduces valuable machine running times. Therefore, for these processes, an automated clamping device change-over makes automation really worthwhile. With the zero- point clamping systems of the AC [automated change] line for both turning and milling, Hainbuch offers field-proven solutions here.

"Our customers and trade show guests can get their own impression of all solutions in our live demos at EMO," Nitsche invites visitors to the live demos. "Our team of experts will be on hand to answer any questions about change-over, clamping, measurement and automation. We look forward to a lively exchange."

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Press release

HAINBUCH at EMO 2023 in Hanover: Hall 3 / Booth I12

Images:

01_Hainbuch_Solutions for the complete process.jpg

02_Hainbuch_Automated zero-point clamping system for turning - centroteX AC.jpg

03_Hainbuch_Automated zero-point clamping system for milling - DockLock AC.jpg

04_Hainbuch_Clamping devices with integrated intelligent measuring technology - Toplus IQ.jpg

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