Press release on the INDEX MS24-8, dated 09/09/2024

Efficiency down to the smallest detail

**At AMB 2024, INDEX unveils its new multi-spindle automatic lathe, the MS24-8. As the successor to the successful INDEX MS22-8, this eight-spindle machine is packed with numerous innovations, some of which have already proven their worth in the six-spindle variant, the MS24-6. These include the new machine design, the INDEX W-serration on the tool carriers, frequency-controlled machine hydraulics, a more advanced spindle head, and an energy-efficient cooling lubricant system.**

The new INDEX MS24-8 multi-spindle automatic lathe is a logical progression, extending the strengths of the MS24-6 to an eight-spindle version. Building on the foundations of the MS22-8, the MS24-8 also features 24 mm spindle clearance on its eight main spindles, as well as up to two hydraulically locked, ultra-fast swiveling synchronous spindles and a maximum of 16 tool carriers. The INDEX MS24-8 can be used as a conventional eight-spindle machine, a double four-spindle machine, or in a mode for double rear-end machining, allowing the production of workpieces with varying complexity and balanced front and rear machining.

A new feature compared to the previous MS22-8 model is the INDEX W-serration on the tool carriers. This well-proven system enables the operator to simply attach the tool holder, which has already been configured in X and Y, significantly speeding up the micrometer-precise alignment. Additionally, the machine utilizes an energy-efficient, frequency-controlled hydraulic pump. This reduces power consumption, noise levels, and ensures a more consistent pressure level. The spindles feature an improved connection geometry for clamping devices, making it possible to choose the Hainbuch TOPlus-Axfix clamping system as standard equipment on the main spindle.

There have also been significant advancements in the peripherals. The MS24-8 is the first product to feature an energy-efficient cooling lubricant system for multi-spindle machines. With an optimized pump design for low-pressure applications and temperature management, along with frequency-controlled high-pressure pumps, significantly less energy is required to maintain the same pressure and flow conditions in the machine. The user can enjoy an added benefit: Since less heat enters the system, the cooling requirements are significantly simplified.

Benjamin Klotz, Head of Development & Design for multi-spindle automatic lathes at INDEX, highlights the machine’s strengths: “With the INDEX MS24-8, we offer a modern, flexible machine design that incorporates proven INDEX features. With live tools and C- and Y-axes, this machine can perform not only standard machining processes but also polylobe turning, polygon turning, power skiving, Torx milling, contour milling, angled drilling, and high-speed whirling.“

BOX

**What sets the INDEX MS24-8 apart:**

* Flexible modular design
* Eight individually controllable motor spindles in a compact, fluid-cooled spindle drum with Hirth coupling
* INDEX W-serration for reduction in setup time
* Energy-saving thanks to frequency-controlled system hydraulics
* First multi-spindle machine with an energy-efficient cooling lubricant system
* Can be used as an eight-spindle machine, a double four-spindle machine, or in a mode for double rear-end machining
* Suitable as a bar machine or with robot loading
* Automation solutions for workpiece feeding and removal

**INDEX** will be presenting its new MS24-8 multi-spindle automatic lathe **at** **AMB 2024 in hall 4, booth C30**.

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**Images ((all images/source: INDEX))**



Figure 1:

At the heart of INDEX MS24-8 multi-spindle automatic lathe is the compact spindle drum with its eight integrated fluid-cooled motor spindles. With 16 tool carriers and one or two synchronous spindles, it enables a wide range of machining strategies.



Figure 2:

Benjamin Klotz, Head of Development & Design for multi-spindle automatic lathes at INDEX: “With the INDEX MS24-8, we offer a modern, flexible machine design that retains proven INDEX features like the W-serration on tool carriers, enhanced with numerous efficiency-boosting details.”