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INDEX MultiLine MS22C and MS22C lean

CNC multi-spindle automatics are worth their money thanks to their flexibility

The multi-spindle turning machine MS22C has been successfully received on the market both as a modular system variant and as MS22C lean with fixed scope of equipment. The MS22C, with up to twelve CNC cross-slides, Y axes, synchronous spindles and other options, offers the possibility to process primarily complex turned parts of difficult material without problems. The lean machine has been developed especially for the economic production of turned parts of simple to medium complexity.

The MS22C can be equipped with up to 12 CNC cross-slides, and optionally with Y axes, two synchronous spindles and six tools for backworking, a maximum of four of which are driven. The V-shaped arrangement of the tool carrier in every spindle position guarantees that only the tool holder determines the type of machining. External and internal machining can thus be carried out with fixed or driven tools at every tool station.

The known advantages of the INDEX CNC multi-spindle machines, such as the hollow-shaft motor technology in all work spindles and the optimum selection of the cutting data via the CNC program, are also integrated in the MS22C, of course. The C axis existing in all spindle positions also allows the complete machining of complex workpieces in a short time. Due to optionally available Y axes, eccentric machining can be carried out in addition. The front-open design in combination with the intelligent arrangement of the tool carriers allows the end slide block to be omitted. This guarantees a free chip fall and thus a high process reliability.

For a special application, the INDEX engineers have developed something new: Until now, the modern CNC multi-spindle machines have mainly been used in the machining of large quantities of complex or difficult-to-machine workpieces. With the MS22C lean, however, another field of application is to be opened up. It has been developed particularly for the market of medium-complex workpieces that has been dominated to date by the cam-controlled multi-spindle automatics and simple sliding and fixed headstock automatics. Thanks to a determined equipment set adapted to the respective needs, the system-related advantages of the front-open INDEX multi-spindle systems are now also available for the cost-effective manufacture of these

turned parts. This is possible because of a consequent adaptation to the needs of the target group. Unlike the MS22C, only a single-NCU is used with the MS22C lean thus providing a maximum of 31 available axes. The machining possibilities, however, are still numerous. In every spindle position, a C, X and Z axis is available. Backworking can also be done using three fixed tools.

INDEX MS22C lean combines the speed of a cam machine with the flexibility of the CNC technology while having extremely interesting investment costs. It is especially recommended as an alternative for higher-equipped cam-controlled multi-spindle machines due to shorter changeover times and lower piece costs. As a result, the MS22C lean pays for itself already with medium lot sizes from approx. 5000 parts for repeated orders and reaches cycle times comparable to cam-controlled multi-spindle automatics. Furthermore, workpieces of difficult material can also be machined without problems.

Contact: INDEX-Werke GmbH & Co. KG
 Hahn & Tessky
 Frank Ostertag
 Marketing Manager
 Phone: +49 (0) 711 3191-9135
 Fax +49 (0) 711 3191-89135
 frank.ostertag@index-werke.de

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Fig. 1: The INDEX MS22C and also the MS22C lean convince with their outstanding accessibility to the work area



Fig. 2: Only the tool station determines the machining. Whether it's inner-inner, outer-outer or inner-outer at the same time in the spindle position, everything is possible.

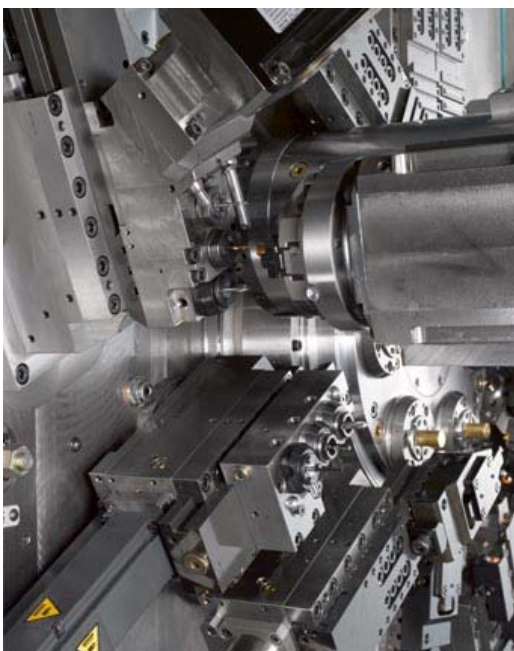


Fig. 3: The MS22C permits a backworking of 6 tools, 2 of which can be driven.

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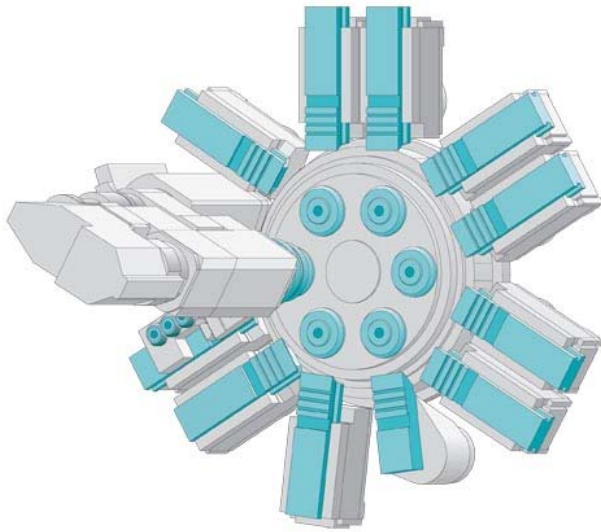


Fig. 4: Due to the firmly pre-defined equipment range of the version MS22C lean and the limitation to a maximum of 31 NC axes, the machining of simpler turned parts at lower costs is possible.

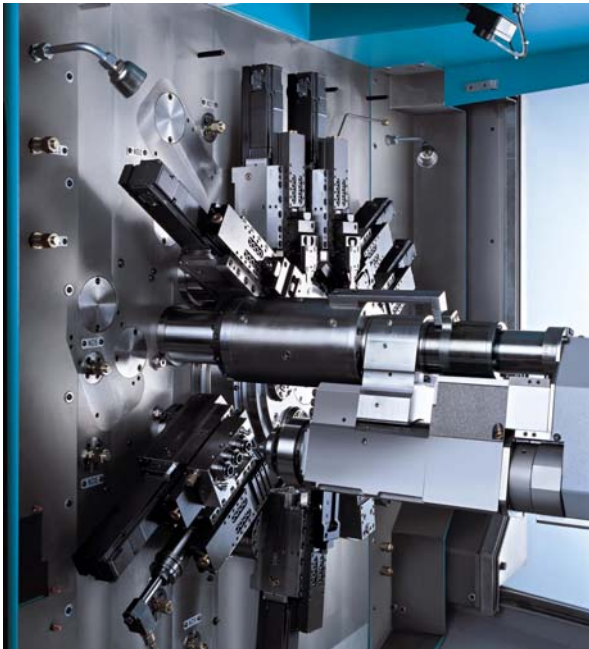


Fig. 5: With the MS22C lean, backworking is possible with 3 fixed tools.