Press Release

MultiLine INDEX MS32C2

Maximum productivity with optimum flexibility

The INDEX MS32C2 multi-spindle lathe and its custom configuration with up to twelve CNC cross-slides, Y-axes, a synchronous spindle and other options allow highly efficient production of bar and chucked parts.

The INDEX MS32C2 is a further development of the highly successful MS32C series that was launched in 2002 with a bar capacity of up to 32 mm. Chucked parts can be machined up to a blank diameter of approximately 60 mm. The INDEX machine features a tool carrier arrangement in the work area without a longitudinal sliding block, which allows more than one tool to be used on each spindle. The generously dimensioned work area can be optimally accessed through two sliding doors on the side. This is not only very convenient for the user but also reduces setup time appreciably.

An advantageous slide arrangement also ensures unhindered chip flow and, thus, a high level of process reliability. The core of the machine is the compact spindle drum with 6 fluid-cooled motor spindles in synchronous design. Additional characteristics of the machine include: infinitely variable speed control, high torque, small frame size, and maintenance-free operation.

Customized machining options in every spindle position

The INDEX modular system allows customer-specific configuration of up to 12 hydrostatic bearing-supported CNC cross-slides, Y-axes, a synchronous spindle, and numerous stationary and live tools for machining the front and rear ends of workpieces. The front-open machine concept and the V-shaped arrangement of the tool carriers ensure that the optimum technological sequence alone determines the machining method. Thus, for example, external and internal machining operations using stationary or live tools can be carried out in every station.

Independent speeds and optimum cutting data

The familiar proven advantages of the INDEX CNC multi-spindle machines, such as the use of hollow-shaft motor technology in all work spindles and the optimum selection of cutting data via the CNC program, were of course also carried over into the development of the MS32C2. During machining, it is always possible to program the optimum speed, which can still be varied during cutting, for each spindle position and each cutting edge of the tool. The result is optimum chipping, maximum surface quality, short production times per piece, and extended tool life. Thus, you can also machine troublesome materials that up to now were hardly suitable for multi-spindle machines. It is also possible to make speed changes during drum indexing, thus avoiding any additional secondary processing times. The C-axes available in all spindle positions also permit complete machining of intricate workpieces in minimum time. The optionally available Y-axes expands the range of machinable workpieces even more.

Robot as productivity factor

To machine chucked parts, the MS32C2 is the ideal choice for automatic loading thanks to its generous work area without a longitudinal slide block. The optionally built-in robot with a single, double or quadruple gripper in the work area handles the loading and unloading of workpieces. The 110 mm chuck allows machining of pre-formed, forged or extruded parts up to approx. 60 mm.

Productivity meets flexibility

A main advantage of the INDEX MS32C2 is its flexibility. The machine allows configuration of various tools on the cross-slides and, thus, integration of numerous machining technologies: off-center drilling, thread cutting, inclined drilling, cross drilling, contour milling, hobbing, and multi-edge turning are only a few of the many possibilities. And the MS32C2 delivers impressive cost effectiveness not just for medium and large batch sizes; for component families, in particular, it plays to its strengths with its ease of re-equipping.

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Figure 1:
The large front-open work area is very well accessible, enabling easy setup

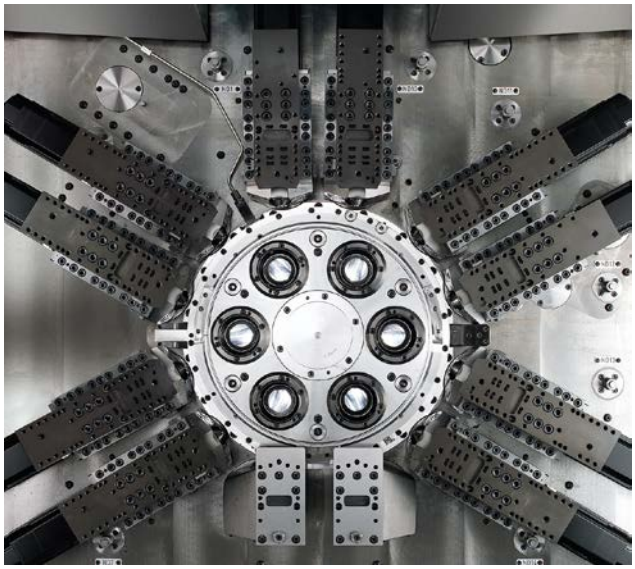

Figure 2:
INDEX CNC multi-spindle machines can be configured according to customer requirements in terms of the number of cross-slides, Y-axes, and synchronous spindles

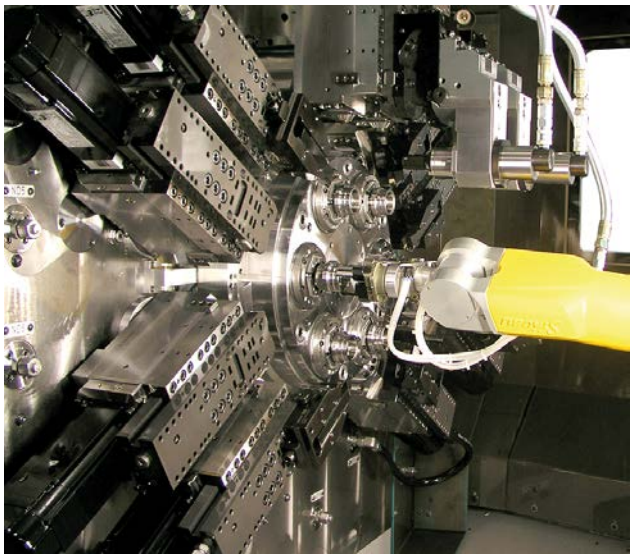

Figure 3:
Flexibility with system: Different tools for different machining operations per spindle position can be installed on the cross-slides

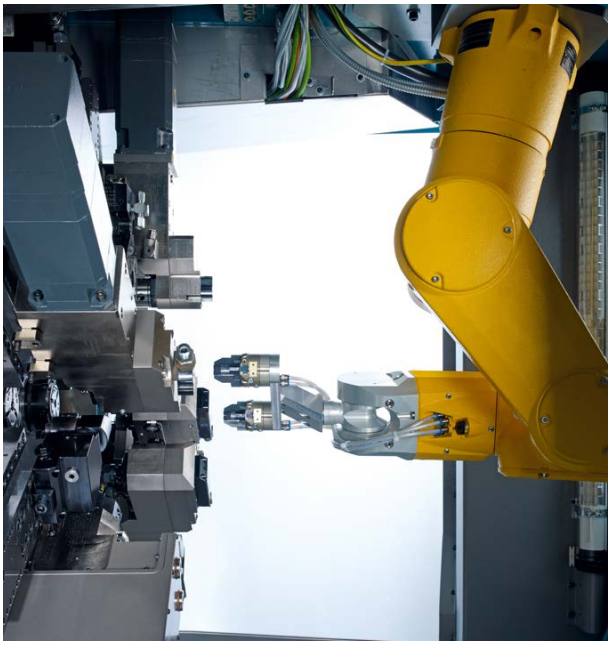

Figure 4:
Robot handling for machining of chucked parts

Figure 5:
Depositing the workpiece on the swivel disk: Transfer to the peripheral handling interface