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The new INDEX MS32-6 CNC multi-spindle automatic lathe

Grooving, drilling, and more

The new INDEX MS32-6 CNC multi-spindle automatic lathe is ideal for the series production of high-precision turned parts from bar stock with a diameter of up to 32 millimeters. Thanks to a flexible machine concept, the CNC multi-spindle machine can also be configured to make it a serious competitor to cam-controlled multi-spindle lathes, even for simple turned parts.

INDEX MS32-6 – the CNC multi-spindle automatic lathe for short setup and cycle times
We designed the new CNC-controlled MS32-6 multi-spindle automatic lathe to be freely configurable: It can be fully equipped with twelve cross slides and NC axes in X, Y, and Z axes, or set up exclusively with NC-controlled grooving and drilling slides. We were able to retain the proven features and elements of the current INDEX multi-spindle machines: The front-opening design with good accessibility and ergonomics, as well as various automation options that also enable the MS32-6 to machine chucked parts.

Ideal for complex high-precision turned parts when fully equipped

At its high-end equipment level, the INDEX MS32-6 features two V-shaped cross slides with NC X and Z axes at each spindle position. Swiveling synchronized spindles in positions 5 and 6 ensure ideal rear-end machining. Additional C and Y axes, together with live tools, provide users with a broad range of machining options such as off-center drilling, threading, contouring, and hobbing, or polygonal turning.

A key component is the fluid-cooled spindle drum with its six working spindles arranged in a pitch circle of 250 mm. The main spindle drive permits speeds of up to 8,000 rpm. During machining, an optimum speed is always available for each spindle position and cutting tool edge. The results are optimum chipping, maximum surface quality, short production times per piece, and extended tool life.

As cost-effective as an automatic cam-controlled machine for contour plunging

In place of full equipment, the INDEX MS32-6 can be fitted with grooving or boring slides in any spindle position required by the customer. This makes the CNC multi-spindle machine a truly cost-effective alternative to cam-controlled multi-spindle machines.

Cam-controlled machines set the standard when it comes to production times per piece. But they have a clear drawback: They are very time-consuming and complicated to set up, requiring specific qualifications on the part of the operator – which are increasingly rare.

When changing jobs, each individual cam on the cam-controlled machine needs to be changed and adjusted, which can take several hours. On the INDEX MS32-6, the grooving slides are designed as NC axes. The operator therefore simply installs the program – and everything is done.

The INDEX MS32-6 CNC multi-spindle machine is practically unbeatable in terms of its setup advantages and thus ensures low unit costs.

Tool holder change: Setup times 50% faster

The MS32-6 succeeds in further simplifying various setup tasks. Each cross slide now has a W-serration, which significantly facilitates the µm-accurate alignment of the tool holder and prevents its misalignment. The operator can preset the tool holder externally, place it on the slide, and fix it in position using the newly developed INDEX quick clamping device. All that is then needed is a quick turn with the wrench and the holder is ready to use. This is true Plug&Play with great effect: Changing the holder is now 50% faster. Also important: Previous tool holders with dovetail mounting can still be used.

Save even more time

There are new drill and double drill holders for the slides with W-serration, which are no longer aligned in the machine but now in advance on the presetting unit. This shortens setup times from up to two hours to around ten minutes. The live units required for milling and polygonal turning are also available with W-serrations, meaning they can be precisely placed on the new slide.

Twin turret boosts efficiency

Another new development that increases efficiency is a small twin turret with rigid tools that can be mounted on the slide in five spindle positions. Hydraulically controlled, the tool can be changed within half a second. The twin turret is ideal for roughing short parts first before then finishing them. Equipped with a spare tool, it is an alternative for use with materials that are difficult to machine as a way of “doubling” life.

Versatility is the strength of the INDEX MS32-6. Whether complex parts or different processes are involved – anything is possible.

- A maximum of 12 tool -carriers with 1 or 2 travel axes
- 70 ➤ Transverse machining with live tools
 - Customized configurations in every spindle position
 - Variable use of tool carriers for internal and external machining
 - 1 or 2 synchronous spindles
 - Y-axes (optional)

75

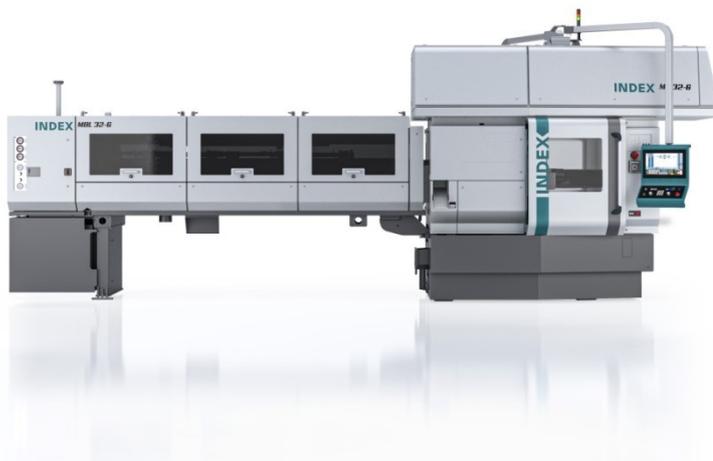
INDEX MS32-6

- Front-opening machine
- Free configuration of tool carriers (cross, grooving, and drilling slides)
- 80 ➤ Swiveling synchronous spindle for rear-end machining
 - Fluid-cooled spindle drum with minimized thermal growth
 - Quick clamping system for tool holder
 - Compact twin turret on tool slide
 - iXpanel – i4.0 ready operating system with 18.5" touchscreen and Siemens S840D sl
- 85 ➤ MBL32-6 3300/4300 loading magazine
 - Chuck part machining with loading and unloading system

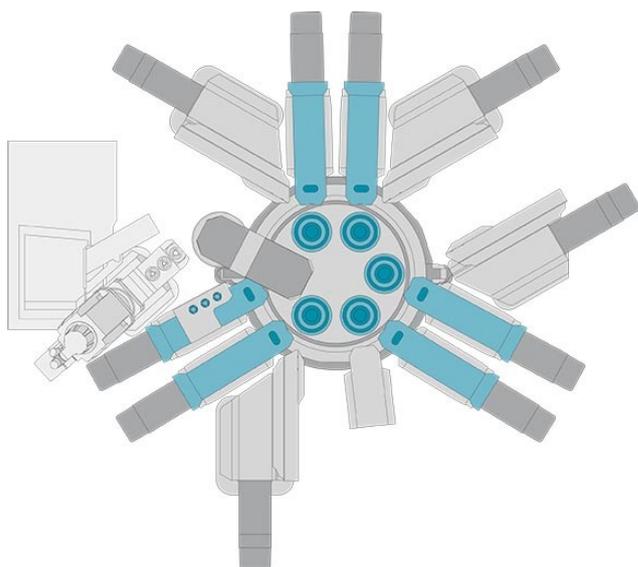
Contact: INDEX-Werke GmbH & Co. KG Hahn & Tessky
Rainer Gondek
Leiter Global Marketing
Tel.: +49 (711) 3191-1286
rainer.gondek@index-werke.de

Picture:

Picture 1: INDEX Multi spindle machine MS32-6 - Flexible and highly productive



Picture 2: INDEX Multi spindle machine MS32-6 - interior variant: "lancing machine"



Picture 3: INDEX Multi-spindle Lathe MS32-6 - Interior Version: "Full configuration with 2 swivel synchronous spindles"

