Your solution for CNC processing: new series, automation and greater flexibility

New CNC all-rounder: optimum balance between space requirements and performance

The new CENTATEQ P-210 series will demonstrate just what it is capable of in its live debut at LIGNA. The new HOMAG CNC machines **do not follow the standard configuration for this performance class**: a gantry design with a drive unit on both sides, a drilling gear and trimming spindle arranged separately with two independent Z axes, a dynamic field division for shuttle operation, and a dual-circuit vacuum system with double-lip technology for infinitely variable adjustment of the clamping equipment.

The convenience package already offers the option to control the machine directly from the machine body. The mobile terminal features the new **powerTouch 2 user interface with a PC87 machine control unit**. With simple and intuitive slot assignment and automatic, location-specific generation of the suction unit assignment, this series sets the benchmark for comfort and performance in machine operation.

The CENTATEQ P-210 can be equipped with up to 24 tool change slots and a maximum of 21 vertical and 10 horizontal drilling spindles with patented spindle clamp. The user can choose between three-, four-, and five-axis heads, and gluing is now also possible. Despite all this, the CENTATEQ's installation area is barely larger than that of its little brother, the P-110, and is freely accessible from three sides. "We wanted the new CENTATEQ P-210 to strike a **good balance between space requirements, performance, handling and flexibility**. And we certainly believe that we have achieved this," says Product Manager Friedhelm Rempp of the new complete package.

Image: The simple, intuitive and fast suction unit assignment saves the operator time and they can also be sure that the correct action is being performed

The new benchmark in gluing technology: the powerEdge Pro Duo gluing unit

New from profile parts gluing: Over the past few months, HOMAG experts have been working behind closed doors to develop a completely new unit for edge banding on CNC machines. The brand-new powerEdge Pro Duo gluing unit will make its world debut at LIGNA. The "all-rounder" brings 30 years of experience in CNC edge banding to one unit to handle all current and future requirements for furniture manufacturers. The technology: defined and controllable parameters at each point along the contour. Quality-enhancing variables such as pressure, temperature and speed are easily managed in an intelligent control system. The result: perfect edge quality from the first component.

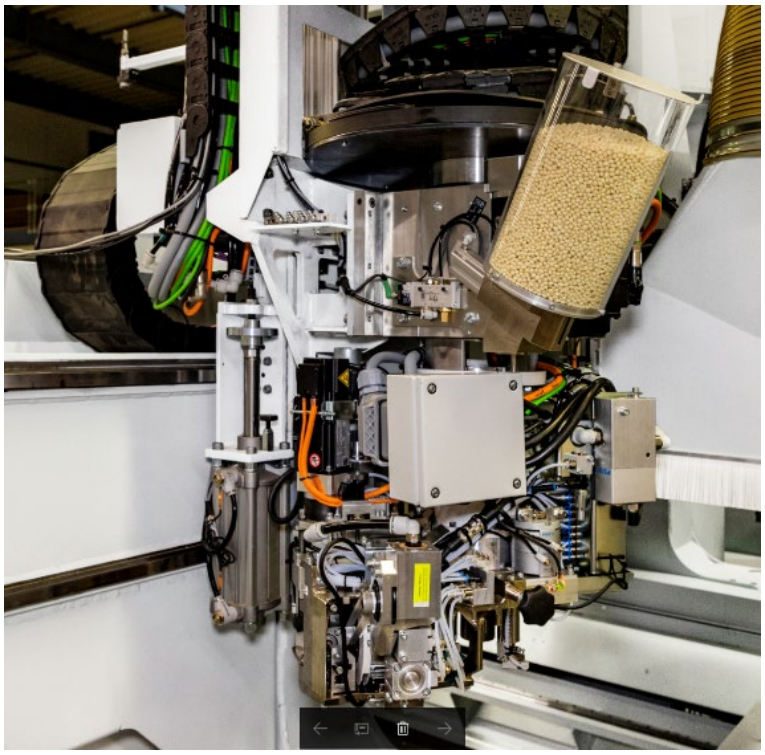

Image: The new powerEdge Pro Duo gluing unit will make its world debut at LIGNA.

Using robots in CNC processing — it's worth it

Size, scope and CNC configuration do not come into play when considering whether automation on a CNC machine is worthwhile. Now, starting with a basic machine that is perfectly tailored to the operation and its requirements, the user works with HOMAG to select the most suitable automation solution — and automation is most beneficial on the smallest machines.
For example, the user automates a vertical processing center from the DRILLTEQ V-Series with a robot and achieves enormous benefits with regards to quality and output. The manpower saved here can then be used elsewhere, optimizing the available resources.

➔ At LIGNA: Part of the **"Networked, individual production"**

Image: Entry-level HOMAG machines already have an option for robot connection (shown here: DRILLTEQ V-Series). The safe, precise and automatic assignment, removing and stacking of workpieces results in more efficient production

CENTATEQ T-300 series: double table — double the flexibility

New at LIGNA: The ideal partner for interior designers, carcass manufacturers and companies that produce furniture fronts or office furniture. The new CENTATEQ T-300 essentially consists of two CNC machines with a grid table and control system. The concept requires a surface area of just 64 m², offering two moving tables, two trimming spindles, two fully equipped drilling gears and an extremely powerful vacuum, combined with the latest safety and control technology. In total, it provides the user with a working area of 1550x6400 mm. Both tables, each with a dimension of 1550x3150 mm, can also be used individually. For example, during shuttle operation, fronts can be produced on the left-hand table and carcass components on the right-hand table. A five-axis spindle can also be connected to the CENTATEQ T-300. The design of the machine allows users to employ a flexible combination of one or two spindles with three, four or five axes. Thanks to the safety concept and the stable construction of the upper supports, the travel speeds can be up to 100 m/min in X and Y directions.

Image: The new CENTATEQ T-300 CNC processing center

Drilled, trimmed and pressed: complete edge processing

HOMAG sent the DRILLTEQ D-500 to a tuning workshop. The machine was originally conceived as a supplement to vertical CNC processing (often referred to as "nesting") and was used for horizontal drilling and/or dowel pressing.

After LIGNA, the DRILLTEQ D-500 will additionally be able to carry out trimming and thus execute processes for all current connector fittings such as the Lamello Clamex, and hinges such as the Grass Tiomos. The machine can also insert a number of connector fittings directly.

All work steps are supported by the intelliGuide operator assistance system. The system uses LEDs to signal to the machine operator which work step should be performed next.

➔ At LIGNA: part of the **"Digital workshop networked"**

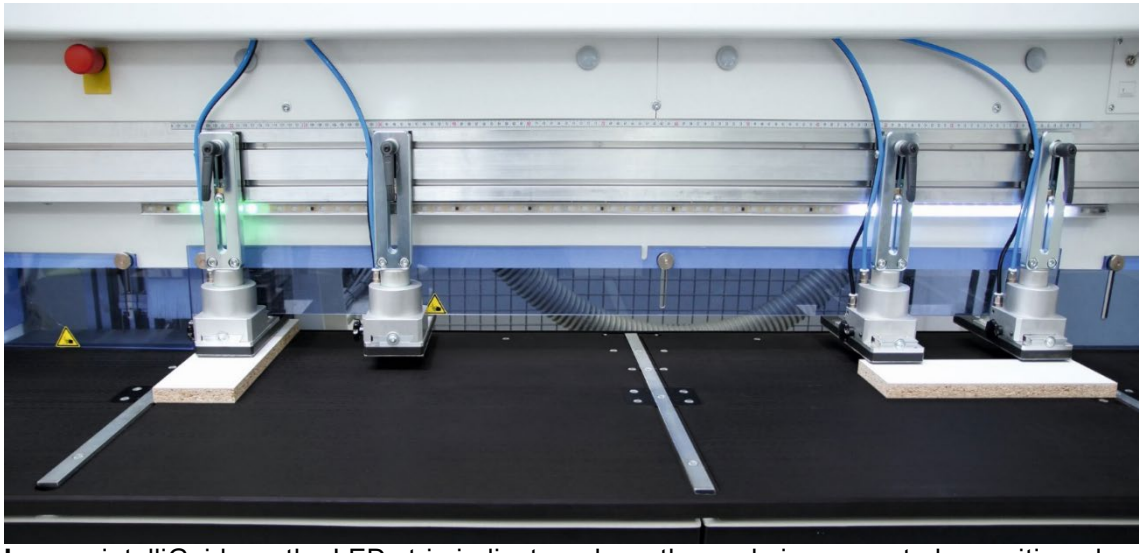

Image: intelliGuide — the LED strip indicates where the workpieces are to be positioned. The color of the LED strip changes once the workpiece has been positioned correctly. This assures the operator that process quality is maintained

Nesting with the CENTATEQ N-600: everything but the edges

The CENTATEQ N-600 nesting machine trims and drills parts—with five-axis technology, if desired—and even offers the option to insert connector fittings directly. At LIGNA, HOMAG will demonstrate this process on the Cabineo drilling unit with a new Cabineo feed system. And once the fully processed parts are ready to be transported from the outfeed of the CENTATEQ, the FEEDBOT C-500 takes over. To remove the panels from the nesting machine, the robot takes parts from the CENTATEQ one at a time to produce an optimized stack. This stack is constructed in such a way that each layer contains as many parts as possible. The resulting stack geometry reduces the stack height and, in turn, the transport costs. The stack is also more stable, so the workpieces are perfectly prepared for further processing on an edge processing machine. Using an automated system adds value and results in increased operation output with a higher level of process quality.

➔ At LIGNA: part of the **"Digital workshop networked"**

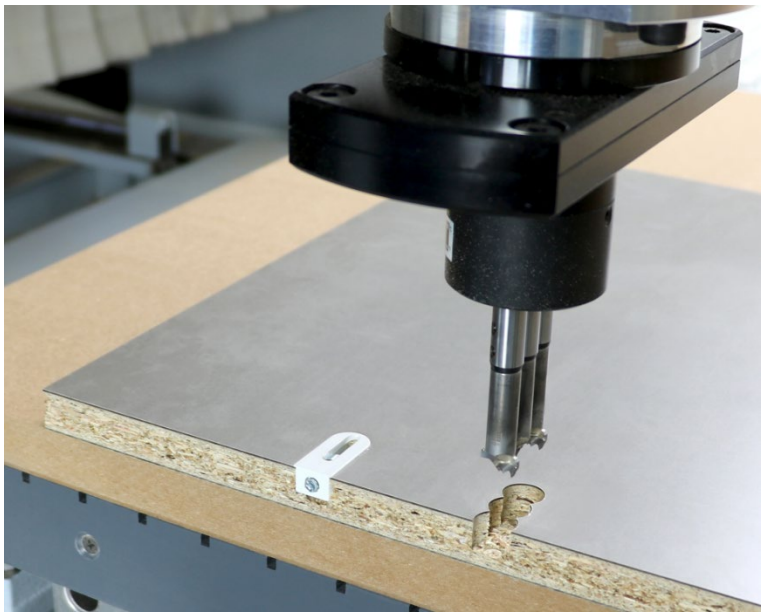

Image: The N-600 has the option to use the corresponding bore holes for a connector or, following LIGNA, the connectors can be pushed in directly. Example shown here: Cabineo

Images
Image source: HOMAG Group AG

If you have any questions, please contact:

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