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PRESS RELEASE

**The Weinig Group at LIGNA 2023:**

**Innovations for resource efficiency and value creation**

The leading technology provider for solid wood and panel processing presents itself in Hanover with the brands Weinig and Holz-Her on an exhibition area of 5,000 sqm. Under the motto WEINIG OFFERS MORE, visitors will experience many of the almost 50 machines and systems live in action at the Weinig Group in Hall 27.

**The Holz-Her machine range: A wide performance spectrum for individual solutions for small businesses and upscale series production**

**With a clear edge into the future**

At Ligna, Holz-Her presented the new Auriga 1308XL multi and the Streamer 1057XL power in the entry-level range. Both machines are axis-controlled and make the setup work much easier for the operator.

The Auriga 1308XL multi is a versatile machine capable of processing a wide range of materials, including delicate surfaces. With 11 NC servo axes and the flexibility of the Glu Jet adhesive application system, the requirements for processing different materials can be met quickly and easily. In addition, the axis control system enables precise positioning and high repeatability. Predefined processing profiles can be selected via the control system and guarantee uncompromising processing of 1 mm or 2 mm edges. The multi-aggregates are also equipped with the proven IntelliSet system. This allows the operator to adjust the tool in the 1/100 mm range via an interactive graphic display, for example to compensate for the thickness of a protective film.

The Streamer 1057XL power, on the other hand, is the ideal machine for small and medium-sized stores. With its axis-controlled technology, it can be changed over in a very short time, which speeds up and optimizes the production process. In addition, the simple operation ensures that even inexperienced operators quickly become familiar with the machine.

Another highlight in the field of edge banding machines is the software-controlled and optimized automatic rinsing process with the patented Glu Jet adhesive application system. The automatic rinsing process makes changing glue child's play. The software automates the rinsing of the adhesive and ensures that the process is fast and clean. The operator can switch between different adhesive types such as PUR or EVA at the touch of a button, and the machine automatically sets the correct parameters for temperature and adhesive quantity. In addition, the software automatically calculates the used edges. The machine control system shows the customer the remaining quantity of the edge roll live, thus facilitating the handling of countless edges as well as remaining strips. This reduces the risk of production downtime due to missing material, for example.

In addition, the software has an adhesive type library that allows the operator to switch back and forth between different adhesive types at the push of a button. All necessary setting parameters, such as the correct temperature or amount of adhesive, are set automatically, allowing the operator to switch adhesive types quickly and easily without having to make time-consuming manual adjustments. This new software version enables customers to optimize their production processes and increase their efficiency.

"The Auriga 1308XL multi and the Streamer 1057XL power are real highlights in our product range and offer our customers new possibilities to work flexibly and efficiently. We are thrilled to be able to offer our customers these innovative machines," says Angelo Amico, Product Manager Edge Banding Machines at Holz-Her.

Automation is also becoming increasingly important in smaller workshops to remain competitive and work profitably. It is precisely for this purpose that Holz-Her presented the new Return-Master 5940 Return System and the 5990 Intelligent Stacking Unit, which were presented in combination with a Lumina 1596 edge banding machine. Fully integrated into the edgebander's control system, the return unit enables intelligent one-man operation for increased productivity and maximum flexibility. The return unit automatically detects workpiece lengths or widths and automatically rotates parts as needed. This shortens production time and significantly increases line yield. There are various processing modes from pure part return to nested stacking on pallets. To assist the machine operator, each mode is displayed in real time via a central graphic. In addition, the dynamic machine infeed lock of the edge bander controls the optimal parts sequence.

**The right solution for every type of CNC machining.**

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Holz-Her's Dynestic series of nesting machining centers includes three series with different sizes and various levels of automation. These machines offer the advantage of precise formatting and CNC machining in a single setup. And they do so with extremely low handling requirements for the machine operator. In addition to unique workpiece identification with, for example, picking, machining and edge information, nesting technology is ideally suited to the use of state-of-the-art joining techniques such as the Clamex P-System or Cabineo connectors. Traditional dowel connections can also be produced by finishing with horizontal drilling and driving of the dowels on Holz-Her machines.

With the new Power-Pin 7605, Holz-Her has introduced a compact drilling and dowel inserting machine that makes just that possible. In the future, operators will be able to drive in wooden dowels fully automatically, thus ideally complementing nesting. Manual driving in of the dowels after CNC machining is completely eliminated, which not only saves time but also increases process reliability. Users can choose between a "classic" or "dynamic" version. Both machines feature innovative technology, intuitive operation and a compact design. While the pressure beam of the Power-Pin classic has to be manually adjusted to the material thickness, this is done fully automatically and program-controlled in the dynamic version. In addition, in the "dynamic" version, the drilling depth and the Z-height of the holes are approached by servo motors. Options such as the practical VISE LED position display and additional horizontal drills are also available for the dynamic variant.

With the Power-Pin 7605, users can drive in both pre-coated dowels and standard wooden dowels with D1 glue (viscosity 150 - 350 mPa.s.). With the optional second step feeder, the changeover from 6-mm to 8-mm dowels is also completed in a matter of minutes. The dowel lengths that can be processed are 30 mm, 35 mm and 40 mm. The large-area support table enables multi-field loading so that several workpieces can be processed efficiently next to each other, and the intuitive clamping concept ensures safe and fast loading and unloading. We offer several automation levels to choose from.

Compact in every respect. All units and storage tanks are fully integrated in the machine. With a footprint of only 4 m³ and an extremely low overall height of 1755 mm, the Power-Pin fits into any workshop. In addition, the machine lid provides a practical storage place for workpieces to be produced - at a back-friendly height of 1215 mm. Depending on the material flow, the Power-Pin can stand freely in the room or be placed against the wall.

**Into the future with the Evolution production cell**

The increasing automation pressure from the furniture industry is not only coming from companies with an industrial level; small craft businesses are also following the signs of the future. Be it to counteract the shortage of skilled workers or to make their own business future-proof through digitalization and individualization. It was precisely for this group of visitors that Holz-Her presented the Evolution production cell at Ligna, a compact single-machine solution for the precise and fast production of furniture parts. The production cell consists of a vertical Evolution CNC and a Kuka robot, which in combination enables almost unmanned production of furniture parts in a very small space. For workpiece manipulation in the production cell, the Kuka robot is equipped with a sophisticated vacuum cup concept to handle components from the drawer front to the cabinet side. The software controls the individual suction segments fully automatically for this purpose, and each suction cup can be controlled individually. Workpieces from 200 x 70 mm to large parts of 3000 x 1200 mm can be manipulated in this way. An integrated camera on the robot arm automatically reads the DataMatrix code and independently loads the machining program for the CNC machine. It also recognizes reference points applied to the label so that the Kuka robot can correct the position of the component if necessary.

Holz-Her uses EtherCAT communication technology to connect the Kuka robot used, which guarantees a fully integrated solution and optimal integration into the plant. Furthermore, it enables faster and safer communication between machine and robot. Further connection modules for communication with nesting or console CNC's are already implemented. The Scene Reverse function allows finished parts to be transported back to the insertion point or starting point. This means that the machine does not have to be fully integrated in the safety area. A complex return system is therefore not required, which saves space and still allows the operator to perform manual machining on the right side of the machine. For use on multiple machines, the Kuka robot can be expanded to include a linear seventh axis. Long distances between the machines are thus bridged and several jobs can be processed fully automatically at the same time.

HOLZ-HER press release and photos:

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