HOMAG Holzbearbeitungssysteme GmbH at LIGNA 2015

Flexibility and efficiency for individual customer requirements

At LIGNA, HOMAG, the specialist for wood processing, is demonstrating performance improvement and efficiency as well as maximum flexibility and an even higher level of quality in the production of furniture and construction elements. From individual machines to the perfect surface, HOMAG is showcasing innovative solutions for all trade and industry needs:

THROUGHFEED TECHNOLOGY

Ambition series with flexible equipment packages

The edge banding machines of the new Ambition series now offer even more options. Where previously a fully automated changeover from one profile to a chamfer was possible, on some models a fully automated changeover from two profiles and a chamfer is now possible. Various equipment packages are available—such as for gluing solid wood strips of up to 20 mm or for processing nesting parts—that offer the right solution for every application. All machines can be constructed with an empty slot for attaching a grooving unit or belt sanding unit. On request, HOMAG will then deliver the grooving unit or belt sanding unit together with your new Ambition machine.

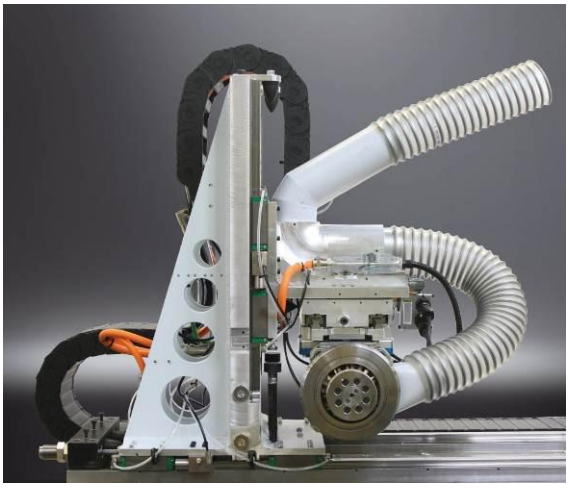
Even more flexible — such as with fully automated changeovers from two profiles and a chamfer

FK30 profi**Trim** profile trimming unit

New level of quality in edge processing for the trade

In addition to the use of a professional gluing procedure, high edge quality relies on high-quality post-processing. Profile trimming plays a key role in increasing quality — making the new HOMAG FK30 profi**Trim** profile trimming unit a crucial factor:

Through reduced mass and compensation of the centrifugal force, the trimming tools remain stable as they move around the workpiece, ensuring high processing quality. With the trimming tool and tracer roller arranged on an axis, inertia has also been reduced. The effects include high construction stability and secure guiding of the tracer and trimming tool. This eliminates operating errors and increases quality. There are further advantages, too. Thanks to electronic tracing, a constant tracing force is created over the entire contour — regardless of speed and acceleration. Impairment due to wear on mechanical components, such as the tracer spring or pneumatic cylinder, is avoided. The tracer roller on the FK30 profi**Trim** can be run with different roller diameters on the front and rear edge. This makes it easy to process post-forming and soft-forming profiles in higher quality with the new FK30 profi**Trim** profile trimming unit.



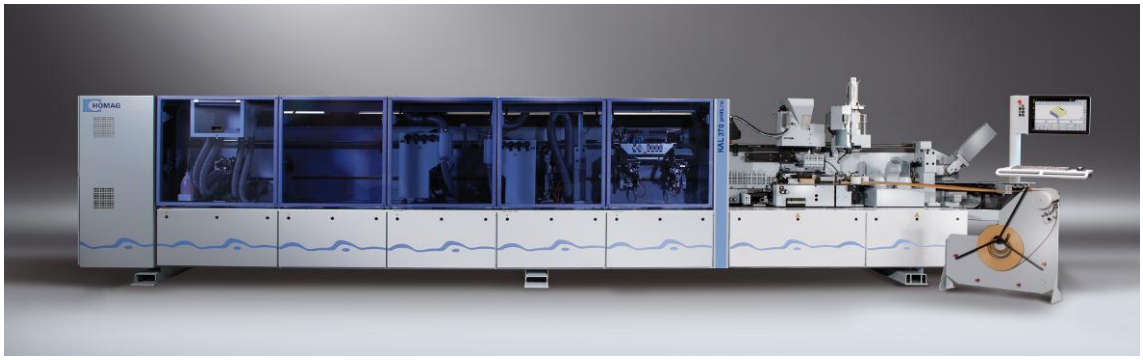
The new FK30 profi**Trim profile trimming unit**

In the Innovation Center, HOMAG is demonstrating the **SK 30 servo snipping unit**, with a servo motor feed drive unit for precise, dynamic cutting with a minimal gap between the workpieces. This adds a further unit to the HOMAG snipping unit module.

KAL 370 profiLine

Optimum results and reduced piece costs – no matter what the edging material

The edge banding machines of the KAL 370 **profi**Line series achieve top marks in terms of economy and performance – no matter what the material. In view of the growing diversity of materials in the furniture industry and rising cost pressure, the machines of this series are efficient and, most importantly, able to work independently of material type. The modular range scores due to its robust design, flexible processing of all types of material, optimum edge quality and high flexibility in terms of equipment – and provides a rapid payback of investment in practice.



The universal machine to cope with growing material diversity

New pre-melting unit with reduced energy consumption

In edge banding machines, the pre-melting unit in the gluing section accounts for the lion’s share of energy used. The HOMAG development team has now made significant reductions here: The result: up to 30 % lower compressed air consumption in the new pre-melting unit in the gluing section of industrial machines. With this move, HOMAG has taken a decisive step towards engendering greater awareness for reduced energy consumption in furniture production.

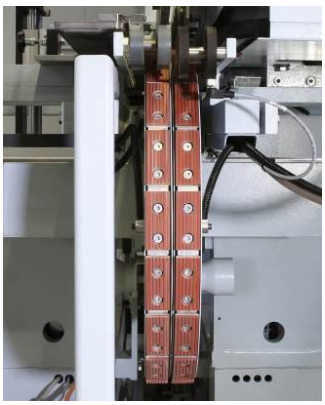
Up to 30 % lower compressed air consumption in the new pre-melting unit in the gluing section

High-tech for flooring production

HOMAG double-end tenoners

More flexible than ever: Equipped with a polygonal shaft, the throughfeed saw FSL 420 enables minimum cutting widths, ideal for processing highly popular narrow formats. The polygonal shaft drives all the sawing units with just a single motor, eliminating the need for motors and gears for every individual sawing unit. With external servo-motor positioning axes for every unit, a quick change over to other cutting widths is possible while maintaining absolute top performance.

With a click profile on the longitudinal and head side, thanks to a all-round chamfer, narrow flooring elements can now hardly be distinguished from real plank flooring, and are also very easy to lay. The FPR 625 takes care of longitudinal profiling of laminate and parquet, but also of the ever more popular vinyl flooring, at speeds of up to 200 m/min. This is made possible by the newly developed narrow chain.



Fast and flexible: HOMAG's new narrow chain

STATIONARY TECHNOLOGY

Venture BMG 300: Individuality as standard

Venture CNC processing centers from WEEKE and HOMAG stand for customized technology – from the CNC entry level model through to the high-tech 5-axis processing center or machines with gluing technology. The series flagship, the Venture BMG 300, has now become even more individual – while remaining the gold standard.

This gives rise to unlimited scope: be it new packages including large drilling heads for high-performance panel processing or packages with high-performance trimming spindles for solid wood processing: In conjunction with the proven console and grid tables, these packages leave nothing to be desired.

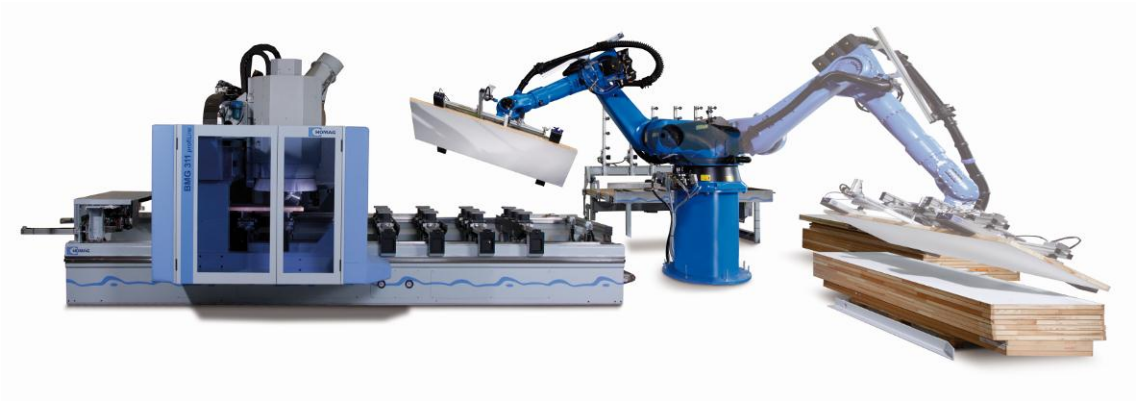
At the same time, all HOMAG CNC processing centers are equipped with the latest generation of dust hoods. With optimized capture and discharge of chips, these dust hoods combine improved suction performance with lower air requirement. The energy used to perform sample processing operations has been reduced by up to 30 % – coupled with 25 % improved extraction.

New packages, more options: High-Tech becomes standard

Automatically better

CNC processing cells with robot automation

Enhanced productivity, less strain for operators, optimum care of materials: HOMAG and WEEKE CNC processing centers and HOMAG Automation robot handling will show you how – live in HOMAG City. The strengths of industrial robots are brought fully to bear when it comes to automating CNC processing cells: Be it the individual configuration of cells with different infeed and discharge stations, flipping and alignment stations or part monitoring. Cell control permits simple operation in series or batch size 1 production. The components are identified by their barcode label using a scanner in the robot traverse, allowing the stack to be configured in random sequence. Use of a robot also takes some of the strain from the operators, leaving them more time to ensure the smooth running of peripheral functions and carry out additional tasks.



Robot-operated CNC production cells link high flexibility with high availability to generate an attractive cost-to-performance ratio

SURFACE PROCESSING

HOMAG lamination: FKF 200 with new options

The new professional series FKF 200 comes with a range of new features set to transform the entry-level machine launched in autumn into an automated solution. Surface laminating machine FKF 200 with application roller (hotmelt, PUR) is capable of practically unmanned sheet lamination. A newly developed infeed system is used to align and clean the sheet material (PMMA, HPL etc.) without a feed stop, and feeds it to the ready glued workpiece. Due to the cleaning station, this solution is also ideally suited for high-gloss processing of substrate material.

Also new: The Profi FKF 200 with **reac**Tec nozzle application using the **complete**Line method. As a result, this method in popular demand in the industrial sector is now economically viable for medium-sized enterprises. In a single work stage, the wide and narrow surfaces are laminated with material off the coil, and the narrow surface finish is completed at an integrated wrapping line and finish processing unit. The integrated double pay-off station allows coil changeover without interruption, enabling continuous production and a high output.

The HOMAG FKF 200 for even greater surface and material diversity

Image source: HOMAG Holzbearbeitungssysteme GmbH

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