

## **HOMAG at the XYLEXPO 2008**

### **Focus on increased productivity**

**HOMAG presented a range of highly flexible, economical processing centres for different fields of application as well as affordable edge banders and double-end tenoners at the XYLEXPO. All the exhibited plants were directed at the same underlying aim: To further enhance efficiency and productivity for customers.**

#### **Venture processing centres**

In the field of processing centres, HOMAG has further extended its already highly successful and proven Venture series. Supplied complete with comprehensive basic equipment, this series can be upgraded on a modular basis by a range of patented and unique processing units, allowing the processing centres to be quickly and easily adjusted in line with changing requirements. Possible upgrades include for instance inclusion of the EasyEdge gluing unit for edge banding on mouldings or the new FLEX5+ unit, which as well as automatic set-up of the fifth axis (e.g. for shift cuts) also offers automatic tool change to reduce set-up times. The Venture 11 has now been added to the series as a new model for 2008, providing an affordable entry level option for processing particularly large workpieces of up to 6,175x1,850x300 mm.

The exhibited models Venture 22L and Venture 16L offer a range of additional series highlights such as the DRIVE5+ 5-axis trimming spindle for processing 3-dimensional components. With a high output of 15 kW, this spindle permits flexible product design, replacing a whole range of different units. In January 2008, Homag was able to celebrate the delivery of its 1,000th Venture processing centre.

### **Processing centre for solid wood**

The automatic positioning AP table (console table) is a HOMAG development designed for window processing applications. The fast, automatic positioning of highly rigid pneumatic clamps helps cut down on set-up times and permits a high degree of precision for the individual production of window components. Subsequent peripheral rebating is no longer required. The exhibited processing centre BOF 311 made use of a 30-slot chain changer to achieve a production capacity of around 6,000 window units per year in single-shift operation. The new FLEX5+ unit specifically enables 5-axis processing with automatic tool change, for example for hardware drilling and trimming operations at different angles. The outstanding flexibility provided by these processing centres guarantees the production of front door leaves, conservatory components, staircases and even furniture components.

### **Processing centres with outstanding flexibility**

Processing centres equipped not only with facility for 5-axis processing but also edge banding provide extreme investment security when it comes to furniture production. The processing centre BAZ 322, for instance, comes with separate traversing axes for the DRIVE5+ 5-axis spindle and the PowerEdge gluing unit. Both processing units can be quickly inserted and exchanged in turn into the patented interface: A benefit which only HOMAG is able to offer. The PowerEdge gluing unit also permits edging of honeycomb panels, which are enjoying increasingly popular use particularly for large panel sizes.

The simultaneous and independent deployment of the PowerEdge gluing unit and the DRIVE5+ five-axis spindle takes care of even higher performance in the BAZ 722 processing centre, which is fitted with two self-setting AP tables (console tables) permitting the simultaneous

processing of different workpieces. Used in conjunction with the feeder TBP 370, this processing centre is transformed into a low-manned high-output production cell.

### **Top quality at an affordable price with KAL 210**

With the extended KAL 210 range, HOMAG proves the point that top-quality edge banding machines can be a worthwhile investment even for small-scale woodworking shops. Because industrially tried and tested HOMAG quality has now been made available at an affordable price, there has been widespread take-up for this machine among woodworking shop customers already.

In detail, the KAL 210 comes equipped with a high-performance trimming unit with a tool diameter of 125 mm, taking care of clean cuts on the upper and lower panel surface with two motors operating in synchronous and counter rotation. A hot melt gluing unit is deployed for glue application directly on the edge, and the heated glue application roller is capable of gluing workpiece thicknesses from 8 to 60 mm without adjustment. The constant glue temperature over the entire height of the roller also takes care of a consistently high standard of gluing quality at the workpiece.

To ensure that all these benefits and performance features are used to optimum effect in a new plant, simplicity in terms of operation and control is a highly significant factor, particularly for smaller companies. In the KAL 210 edge banding machines, this important task is the responsibility of the **power** control system PC22 from HOMAG. An intuitive graphic user interface with menu prompting in line with the Windows XP standard, and graphic support take care of outstanding convenience and user-friendly machine operation and programming.

Three new models of the KAL 210 were unveiled at the Xylexpo, permitting wide-ranging different user requirements to be addressed at affordable cost. The KAL 210 offers a highly attractive cost-to-performance ratio.

### **KFL 520: Sizing and edge banding on double-sided machines**

Producing workpieces on double-sided machines with sizing and edge banding offers a wide range of benefits in terms of both operating speed and costs. These plants can naturally also be used as single machines as part of a production line. Fully automated solutions with automatic feeding and stacking provide the basis for achieving maximum profits.

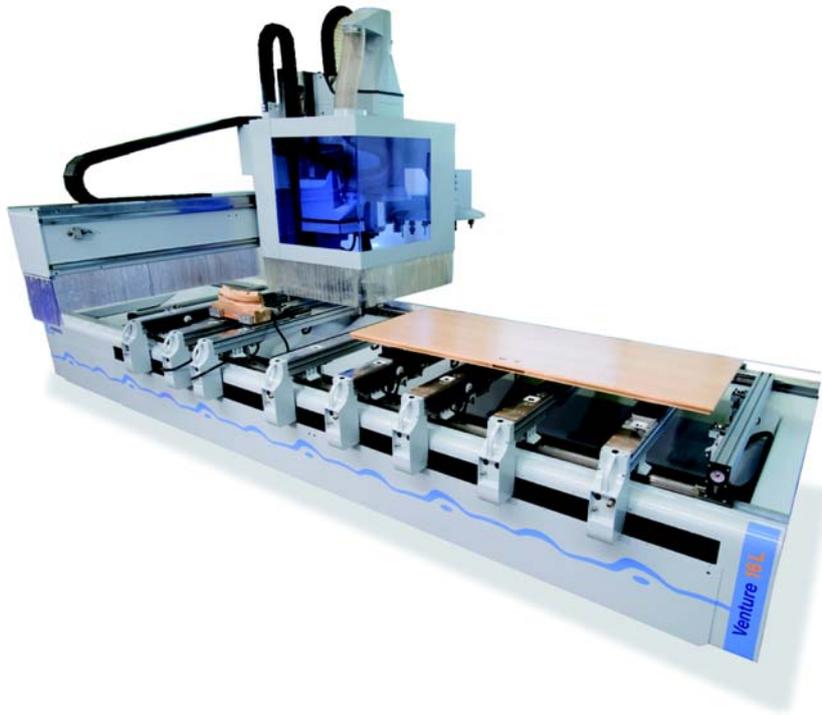
The KFL 520 machines supplied by HOMAG also afford scope for feed rates of up to 50 m/min, meaning a substantial reduction in times required for complete processing. This makes the KFL 520 a highly cost-effective and efficient option for series production.

### **Postforming**

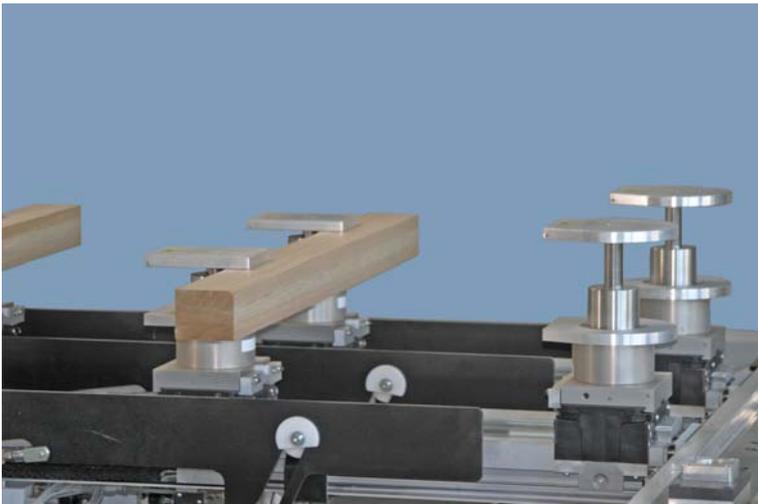
Special profile geometries and designs without visible glue joints lend contemporary furniture an added value. With its VFL 610 postforming machine, HOMAG is setting whole new standards in the postforming of workpieces with small radii. It allows radii down to a minimum of 3 mm to be processed, creating an even and cohesive surface finish on covering and narrow workpiece surfaces without the need for glue joints. The extremely small radius at the edge creates an flawless appearance and sets whole new standards in edge quality.

### **Automatic workpiece infeed with the KFL 610**

When producing small production runs, the necessary setting processes can be highly time consuming. This type of non-productive time can be reduced by improving plant flexibility. Sizing and edge banding machine KFL 610 from HOMAG with automatic workpiece infeed also for unsized workpieces offers scope for the economical production of batch sizes as small as 1 with reduced set-up times.



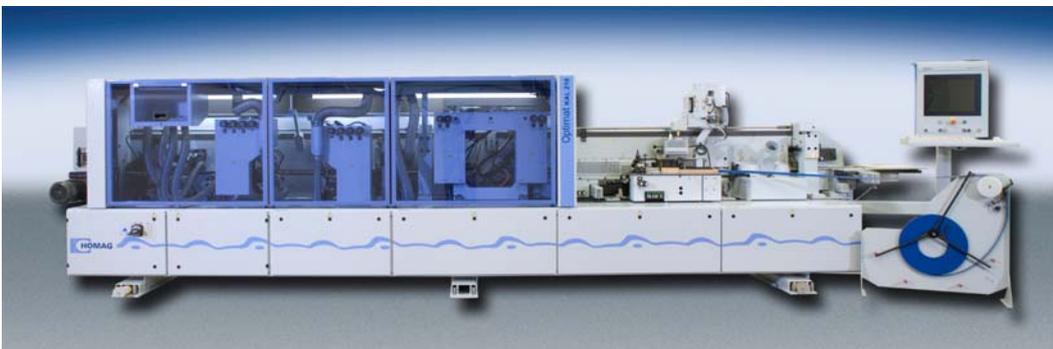
**Fig. 1:**  
Venture 16L



**Fig. 2:**  
Automatic positioning AP table



**Fig. 3:**  
BAZ 722 production cell



**Fig. 4:**  
KAL 210 edge banding machine



**Fig. 5:**  
KFL 610 sizing and edge banding machine

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