

The complete timber work range – innovative new product developments by WEINMANN

At the LIGNA, once again WEINMANN is going to present practical solutions for timber frame enterprises. As the only manufacturer who offers both solutions for beam processing and for element construction, WEINMANN has enhanced its products in every field. These further developments make the machines even more versatile and more flexibly applicable, and they offer timber frame producers some much more accurate plus faster element production.

Processing from six sides: More flexibility in beam processing through WBZ 160 powerSIX

Today, numerous carpentries use the WEINMANN carpentry machine that offers the highest capacity, the WBZ 160. This machine does not only open up countless processing options, but, at the same time, features a very high performance. But the WEINMANN designers have made great effort once more: The newly developed underfloor unit enables an even greater variety of parts to be produced, but still only requires an unchanged low amount of space. So most processing steps required are performed from all six sides without any tilting operation - so classic block house joints can now be created with ease. For example, blocking grooves and dovetail connections on both sides can be created quickly and easily on purlins and ridge beams. This not only allows a higher level of precision to be achieved, but also increases the processing speed and simplifies handling.



Picture no. 1: Performing notches by means of the underfloor unit

Not to be forgotten: The ease in terms of handling. The beam does not have to be transported out, rotated, and then transported in again. It is processed in the same position in which the processing is performed for the other work piece sides. This guarantees a much higher level of accuracy.

**Again, the WEINMANN multifunction bridge gives proof of its versatility:
automated frame work generation and fully-automated panel cut.**

The huge field of application reveals that the WEINMANN multifunction bridge WMS is a real all-rounder. From classical carpentry work to caravan production, the machine can be used for the automated fastening (nailing, clamping or also screwing) and processing (sawing, routing, drilling, marking, labeling, gluing and sizing) of the sheathing. Moreover, not only timber frame elements can be processed – materials like e.g. sandwich elements can be manufactured easily and efficiently. Carpenters esteem the multifunction bridge particularly because of its versatile range of applications, its low space requirements and easy handling.

Panel production line compactPLUS – automated frame work manufacturing

The latest further development has capacitated the multifunction bridge to produce frame work semi-automatically. For this purpose, the machine can be equipped with a frame work stop system, providing the operator with stops for exact positioning, and enabling the automated joining of plates and studs.

The so-called compactPLUS element production line is a further development of the well-proven compact line and consists of a multifunction bridge, two assembly tables and a framing table. It enables the efficient manufacturing of wall elements as well as roof, floor and gable elements on a minimum of space. The production process happens significantly faster, and furthermore less staff is required.

First of all, the studs and plates are nailed together with the new unit for frame work generation. So through the higher degree of automation plus the proven WEINMANN technology, manufacture of high-precision frame work is ensured.

Then the sheathing is placed and gets fastened and processed automatically with the bridge. Now the element is turned by means of the assembly tables so fitting and

insulation can be applied. Afterwards, the second element side is closed and processed, too.



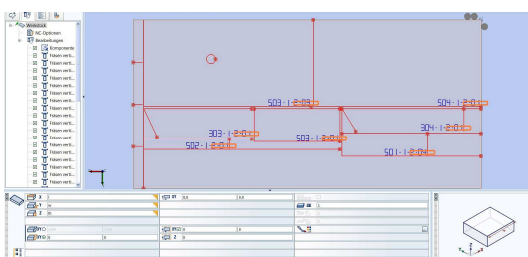
Picture no. 2: Automated frame work generation with the compact**PLUS**

Now fully automated panel precut and full nesting function are also offered with the WMS

The innovation for timber frame producers, carpenters and anybody intending to process large-sized panels: Drilling, routing, nailing, clamping, sawing and full nesting functionality – all this is offered by just one machine, irrespectively of contour and panel size.

The nesting can be performed on a bracket table with vacuum suction cups or on a grid table - depending on customer requirements. The panel is placed on the respective table and processed fully automatically, fast and efficiently by the multifunction bridge. The processing happens in such a manner that just a minimum of offcuts occur. This new function enables the multifunction bridge to take care of additional tasks which otherwise would have to be performed with a different machine.

This means enormous savings in terms of space requirements and investment costs for your enterprise.



Picture no. 3: Fully automated panel pre-cut with the multifunction bridge

Solid wood portal: Automatic positioning sensor device

A newly developed unit for the WEINMANN solid wood portal enables automatic work piece positioning. Its advantage: Even bulky and heavy work pieces can be positioned easily, quickly and accurately for processing. In doing so, the contours of bulky work pieces – for example bent glulam beams – are determined. A high precision sensor measures the contours of the raw elements, and the determined contour is displayed on the monitor of the control panel. Then the data set is laid on the determined raw element which gets processed accordingly.

30 years of WEINMANN – 30 % higher performance

In 2015, WEINMANN performs its 30th anniversary. On the occasion of this event, the customers are offered three edition machines featuring significant time savings. The outcome of this is a much higher performance.

- Carpentry machine WBZ 160 power**SIX** – 30 % increased performance



Picture no. 4: Carpentry machine WBZ 160 power**SIX**

- Panel production line compact**PLUS** – 30 % increased productivity



Picture no. 5: Panel production line compact**PLUS**

- Butterfly Turning Table – 30 % saving of time



Picture no. 6: Butterfly turning table

Take the opportunity at the LIGNA 2015 in Hanover, learn about the new features and check out live demos of the WEINMANN machines at our stand. You can find us in hall no. 15, Stand C23.

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