A good grip of window manufacturing

The new HOMAG power**Profiler BMB 800/900**

World premiere in Schopfloch: On July 7 and 8, HOMAG presented the new power**Profiler** BMB800/900. A versatile machine with more functions and higher output for window production.

The new power**Profiler** processing centers are impressive across the entire range: the machines in this completely new designed series each demonstrate high performance in a small space and provide an opportunity for processing all components efficiently in one machine. Additional options for profile design and an extended performance range make the machines in the new BMB 800/900 series the first choice for efficient and future-proof window production.

A firm "grip" on everything: progress through clamping technology

The new gripping and clamping technology opens up new opportunities in profile design. It is now possible to clamp and re-clamp the components freely in the clamps in all three directions. The clamps can be adjusted relative to one another and, if necessary (e.g. handle drill holes) be swiveled away.
Free clamping in terms of height opens up completely new opportunities: when being re-clamped, components can also be clamped in the rabbet — this enables a complete, free, six-sided processing for narrow profiles, such as the current integral profiles.

Up to 50 window units per shift in a small space

The basic concept is based on a solid gantry bridge, the beam table with one or two independently movable rows of clamps (depending on the performance requirement), and the gripping unit for loading, clamping, and unloading the components. The spindles, processing units, tool changing systems, and tables can be configured individually, allowing the machine to accommodate four parts

simultaneously and for processing to be performed in parallel at both tables. At one and the same time, processing can be taking place at one of the tables while components are being clamped, loaded, or removed at the other table. The result: a significant increase in performance compared to solutions previously available on the market, as well as consistent scalability of performance from 20 to 50 window units per shift — and all that in a compact installation area with loading and removal in one place.

ToolTower tool storage system: faster, bigger, better

High capacity, short tool change times, accommodation of large and heavy tools: many tool storage systems meet only one of these important criteria for window manufacturing. In contrast, the new ToolTower storage system meets all of these demands.

Generous distances between the slots enable loading without any gaps, even for large tools with double-section height. Up to four disks positioned above one another ensure full capacity to tool slots.

The swivel arm ensures short non-productive times and a fast tool change: the new tool is prepared during processing and is in a waiting position so that only a short swiveling movement is necessary for the tool change.

From XS to XXXL

More than "just" windows: with part lengths of up to 4200 mm in the standard sequence and up to 6000 mm with single feed, part thicknesses up to 150 mm and widths up to 300 mm, the power**Profiler** covers much more than just the standard range. It can also be used for complete processing of construction elements for conservatories and facades to CNC precision. Small sash bars can also be produced easily thanks to a minimum part dimension of 170/25/15 mm in automatic mode.

Everything in one machine

One machine, one data connection to the work preparation software, one tool set: the dockable console table makes the power**Profiler** a valuable standard processing center with all options, allowing complete processing of curved parts, round windows, doors and supplementary elements which would otherwise need to be processed on other machines.

Economical and future-proof

Economical window production is based on having as few work steps as possible and a low level of personnel. At the same time, the machine operator should have the freedom to perform additional activities efficiently or to organize the material supply and the machine environment. This is guaranteed by the complete processing of the components by the machine—even for special fittings—and autonomous operation of up to two hours thanks to the parts buffer in the infeed and outfeed tables.

The automation can be expanded on a modular basis with optional rack trolley loading systems and interlinking with cutting, planning, and flow coating systems.

The road is clear for any future trends thanks to an extensive range of units with up to five-axis technology and the innovative clamping technology: regardless of whether you want to process conventional or new corner connections, windows for historical buildings or new cross-sections with narrow view widths.

Watch the video! youtube.com/ homaggroup!

Image source: HOMAG Holzbearbeitungssysteme GmbH

Figure 1: power**Profiler** BMB 800 with additional console table

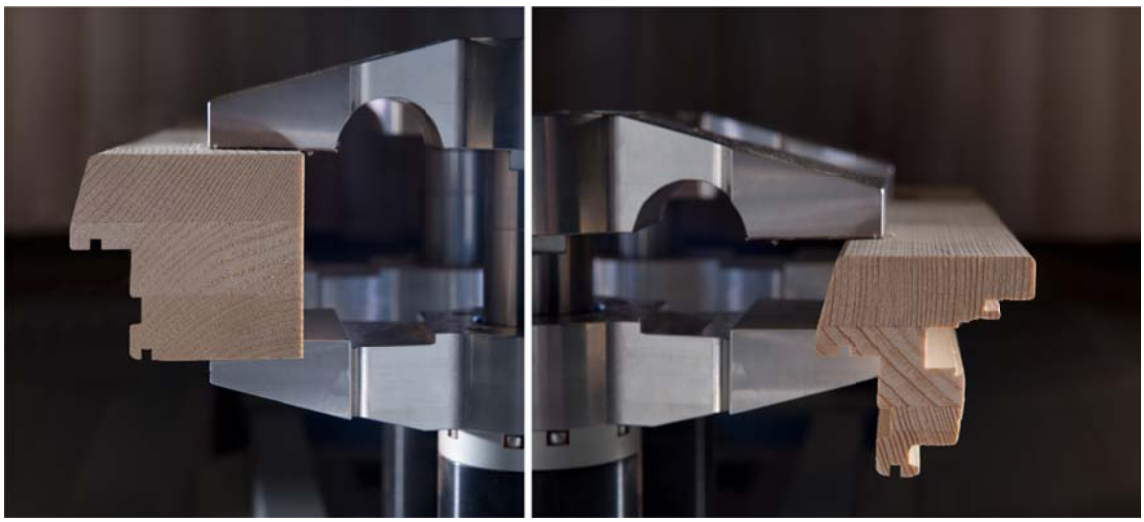

Figure 2: Progress through clamping technology: new opportunities in profile design

Figure 3: Handling unit for precise clamping and re-clamping

Figure 4: Everything in one machine: additional console table for curved parts and doors

Figure 5: ToolTower tool storage: full capacity and short tool change times

Figure 6: Trimming with the new power**Profiler**

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