

## **The HOMAG Group – everything fits together perfectly. For a new quality in plastics processing.**

**Perfection at every stage was the theme of the HOMAG Group at the K 2013 in Düsseldorf. At the world's most important plastics fair, BARGSTEDT, HOLZMA, HOMAG and WEEKE exhibited precisely coordinated processing machines. Each one is an impressive soloist in its own right, excelling in terms of performance and reliable quality, but once they are combined they are unbeatably efficient and allow operators to take a crucial step forward in their production processes. From 16 to 23 October, visitors to the K 2013 were able to witness this live in Düsseldorf.**

Ideal storage, careful transportation, accurate cutting to size and precision CNC processing of plastic panels: Machines from the HOMAG Group allow plastics-processing companies to take full advantage of these strengths, because they can be used both individually and in combination, in integrated, single-source solutions – far more easily and effectively than most other industry solutions. The reason for this is that, from storage system to saw and from CNC processing to polishing technology, all the machines come from the HOMAG Group and are perfectly coordinated in terms of hardware and software. This excludes compatibility problems and integration measures right from the start.

These advantages allow customers to save a great deal of time and money from day one and to benefit, from the evaluation period onwards, from processing solutions that are literally made for each other. During running production, HOMAG Group machines demonstrate every day how perfectly matched they are by providing high-quality precision results, smooth processes and maximum machine availability. Another advantage: BARGSTEDT, HOLZMA, HOMAG and WEEKE provide sales and service from one source. This ensures attractive conditions and fast on-site assistance throughout the world, should it be necessary.

## HOMAG Group plastics expertise at the K 2013

- **BARGSTEDT TLF 411 horizontal storage system** (with a HOLZMA saw)  
Innovative solution for material-friendly logistics
- **HOLZMA HPP 530 P panel saw**  
Precision cutting for plastic panels
- **HOMAG BMG 300/500/600 moving gantries**  
HOMAG provided information about CNC router and machining centers with extensive options including 5-axis processing (no machine at the fair)
- **WEEKE ABP 155 + Vantage 100/480**  
The latest routing and polishing technologies + filigree routing with the nesting technique

### The fair highlights in detail

What was awaiting visitors to the HOMAG Group stand in Düsseldorf? A raft of new machines and innovative processing technologies specifically for the plastics industry. An overview.

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#### **BARGSTEDT horizontal storage systems for smooth logistics**

Optimal material flow is essential for good capacity utilization. BARGSTEDT is a specialist in this field and showcased the TLF 411 horizontal storage system, a logistics solution for panel-shaped materials. The principle: Instead of making the machines dependent on the material flow, the horizontal storage system makes the material flow dependent on the speed of the processing machines. This is what guarantees maximum productivity.

To meet the specific requirements of the plastics industry, BARGSTEDT equips the horizontal storage system with the ST 71 suction traverse. The geometry of the ST 71 ensures that plastic panels are reliably separated and reduces energy

consumption to a minimum, as the vacuum generated is optimized to suit the specific panel properties. With span widths of up to 16 m and travel lengths of up to 100 m, there are virtually no limits to the number of design options. The speed of up to 180 m/min ensures that each panel is quickly transported to any storage location or deposited for processing on a linked processing machine.

The horizontal storage system allows substantial space savings to be achieved in the panel storage area. Routes are optimized; the material requirement reduced to a minimum. Furthermore, the storage system control increases transparency and optimizes stack distribution in the store dynamically for queuing orders.

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### **HOLZMA HPP 530 P – high-performance saw with all options**

At the K 2013, the BARGSTEDT horizontal storage system was linked to a HOLZMA HPP 530 P – one of the largest series machines made by HOLZMA. Visitors had a chance to see the benefits and potentials of such a saw-store combination for themselves at the fair. The HPP 530 P is equipped with the latest technologies for plastics processing and stands for first-class cutting quality. Particularly worthy of a mention are the 5600 mm cutting length, the reverse cutting feature, the cutting line control and the material-dependent parameters option in the CADmatic machine control. The latter allows the saw to be adjusted to almost any material in an instant, thus ensuring maximum efficiency even when processing small batches. Thanks to its SORB TECH machine bed, the HPP 530 P guarantees very smooth running, resulting in a high level of precision – even in continuous operation.

The saw was designed and configured for one of HOLZMA's largest customers in the plastics segment: for ThyssenKrupp Plastics. Immediately after the fair, the HPP 530 P was assembled at this company's Mannheim location where it replaced a HOLZMA HPP 22 that had been in service for more than ten years - nonstop. This quality and performance deeply impressed the West European market leader in semi-finished plastic products. The company now has some 30

HOLZMA saws in use worldwide for cutting plastic products – two of them in Mannheim, the largest logistics center in Germany. In addition to the new HPP 530 P, there is also an HPP 510 P in operation. ThyssenKrupp Plastics has the two saws in Mannheim running 3 shifts a day, five days a week.

The focus at the fair was, however, not on the high-performance saw as a stand-alone solution, but in combination with the BARGSTEDT horizontal storage system. The trend towards saw-store combinations is playing an increasingly important role in the plastics processing sector too. The reasons for this are clear: automated panel handling boosts efficiency in the production process and offers many advantages. It was possible to see what effects this can have in practice in a new video that HOLZMA released just before the fair. The principal performers: the BARGSTEDT TLF 420 profiLine and the HOLZMA HPP 380 Plastics in action at SK Scheidel Kunststoffe-Glas GmbH. This video is available either at [www.youtube.com/holzma](http://www.youtube.com/holzma) or directly on the HOLZMA website for plastics processing [www.holzma-plastics.com](http://www.holzma-plastics.com).

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### **HOMAG solutions for high-end CNC processing**

At the K 2013, the HOMAG team advised visitors of the virtually unlimited options in CNC plastics processing. No matter whether it's the BMG 300, 500 or 600, these high-end moving gantries from Schopfloch cover an enormously wide spectrum and stand for perfection in CNC processing. Flexibility and versatility included, because all the processing centers can be individually configured and equipped as needed with trimming spindles, tool changers, additional units, different table versions and clamping equipment to meet the specific requirements. This allows different processing techniques such as sawing, trimming, drilling or cutting with rotary or oscillating blades to be seamlessly integrated as needed.

All BMG series machines feature HOMAG 5-axis technology, which provides the widest possible range of processing options. This technology allows CNC

processing at any angle and in any position – including free-form parts. Available on request even for part sizes up to 7400 mm x 3000 mm x 500 mm.

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### **WEEKE showcased latest routing and polishing technologies**

Not just one, but two innovations from WEEKE were on show at the K 2013 and represented a new quality in plastics processing. One of these was the WEEKE Vantage 100/480 – a real multi-talent for newcomers to CNC processing. This CNC machine processes various plastic materials and aluminium with greatest precision and is ideal for filigree routing work, optimized nesting and very fine engraving.

The strengths of the Vantage 100/480 at a glance:

- ✓ Tool changer magazine with 13 slots for greater flexibility
- ✓ Filigree routing work using the nesting technique
- ✓ High-gloss finish routing using natural diamond cutting blade
- ✓ Cutting by means of drag knife for graphical and display applications
- ✓ Optimized nesting of small workpieces
- ✓ Versatile use, for instance for thermoplastics such as plexiglass and POM (polyoxymethylene)
- ✓ Intelligent vacuum system (MATRIX-Pro) ensures a firm grip on small workpieces at low energy consumption (ecoPlus)

The second highlight showcased by WEEKE was the ABP 155. This edge polishing and routing machine deals with the finishing of sawn or rough-milled edges, giving them a final polish. Top quality processing is ensured by the stable machine body made of SORB TECH – a patented, fiber-reinforced composite material that is characterized by its extreme toughness and fast vibration absorption. The intelligent machine control and tooling system supplied by Euracryl together ensure superb polishing quality.

The bottom line: Each individual machine from the HOMAG Group opens up new possibilities in plastics processing and epitomizes uncompromising quality.

Together they are unbeatable and increase efficiency in plastics production from warehousing right through to final finishing.