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## **PRESS RELEASE**

BATTENFELD Kunststoffmaschinen further expanding its performance range

### **High-precision machines for highly efficient processes**

***BATTENFELD Injection Molding will continue its Latin American success story of more than 40 years with three impressive exhibits at Brasilplast from May 7 to 11, 2007. In Sao Paulo, the Austrian machine manufacturer will put an HM 400 on display as an example of its precise, high-performance HM series, which stands out by the highest performance and simultaneously the most compact footprint in its class. The presentation of a TM from the company's toggle machine series and of the Airmould technology developed by BATTENFELD complete the picture.***

***Another highlight is the latest-generation UNILOG B6 control system, which is setting benchmarks in user-friendliness, speed and precision.***

### **Shortest horizontal injection molding machine on the market**

The 2-platen injection molding machines of the HM series hold a top position on the market in their performance class from 320 to 500 t, since they are well known for more than just compact design and small footprint. They also offer the largest diagonal distance between tie bars in their class and captivate customers by their enormously generous, comfortable mold space, with virtually no limit imposed on mold weights.

On an HM 400/3400 "Advantage" with 400 t clamping force, BATTENFELD will demonstrate the production of polypropylene B column elements in a two-cavity mold. The HM injection molding machine from BATTENFELD handles this task with absolute reliability; its high-precision performance demonstrates its exact platen parallelism, which even halves the EUROMAP tolerance margin.

In addition to the standard equipment, the special HM “Advantage” series offers a performance package to meet highest demands. This includes, for example, a highly wear-resistant barrel-and-screw unit, a twin pump for parallel movements to save on cycle times, a software package with extended quality monitoring functions, and much more.

The energy-saving, high-precision hydraulic systems and dynamic injection units of HM injection molding machines ensure efficient, optimal manufacturing conditions. The screws are designed with a consistent L/D ratio of 22, thus achieving a high plasticizing performance. HM machines operate with an injection pressure of up to 3000 bar and a maximum injection speed of 300 mm/s, which must be achieved especially when producing thin-walled parts. Thanks to a great variety of combinations with a choice of 5 injection aggregates, 3 clamping force sizes and 7 screw diameters, this series can be optimally adapted to each customer’s needs. Moreover, all sizes are also available as multi-component machines.

From the HM series in the 25 to 270 t clamping force range, BATTENFELD has chosen an HM 100/525 S with 100 t clamping force to demonstrate its patented Airmould technology, developed by BATTENFELD. A polycarbonate towel rail will be manufactured on this 3-platen machine. With specially designed Airmould components, i.e. the mobile gas generator, the pressure generator and control unit and the gas injection aggregate, significant improvements to the dimensional precision and surface quality of molded parts have been realized. Simultaneously, more cost-efficient production can generally be achieved thanks to reduced clamping force requirements, shorter cycle times and material savings.

The third exhibit, a TM 50/210 with 50 t clamping force, will manufacture light fittings from polystyrene at Brasilplast. The TM series offers spectacular flexibility among toggle machines with a choice of close to thirty combinations of clamping force sizes, injection units and screw diameters.

Of course all machines presented come with the “America Latina” equipment package, which is specially adapted to Latin America, providing maximum reliability even in tropical conditions.

## **The UNILOG B6 control system – new, comfortable and highly efficient**

BATTENFELD delivers its new machines with the latest-generation UNILOG B6 control system, which makes machine operation even more comfortable. The well-known, familiar symbols of the UNILOG B4 control system have been taken over to ensure quick familiarization with the new system. The TFT color screen, which has been enlarged to 15", provides touch screen functions for extremely fast, easy navigation and data input. The data entry and display panel of the B6 control system, mounted in the middle of the central column of the machine, permits easy selection of process control functions with simultaneous observation of the mold area. Extensive functions, such as language and measurement unit selection, or an online help system with integrated operating instructions and circuit diagrams, ensure easy operation of the UNILOG B6.

The Windows XP operating system provides genuine "plug & play" facilities for connecting various peripheral equipment and communication interfaces. For example, a printer can be connected or data storage carried out on the operating terminal via 2 USB interfaces. The UNILOG B6 makes machine control network-compatible, so that data exchange can just as easily take place via a network with TCP/IP protocol. Of course, this function also supports remote maintenance. Error signals and warnings can be sent by e-mail directly from the control system.

The system's performance also excels in process documentation: here, an extended login function and comprehensive documentation and monitoring facilities ensure absolute reliability. An alarm system registers malfunctions and initiates appropriate responses. Machine movements, such as core pulls or rotary units can be freely programmed. The UNILOG B6 control system operates faster and more accurately than its predecessor version – especially in highly complex tasks. The new control system shows its full potential particularly in highly complex special injection molding processes.

**Photographs:**



At Brasilplast, BATTENFELD will manufacture a polycarbonate towel rail with Airmould technology on an HM 100/525.



An HM 400/3400 "Advantage" UNILOG B6 on display at Brasilplast – on this machine BATTENFELD will demonstrate the production of a B column element from polypropylene.



On a TM 50/210, BATTENFELD will manufacture light fittings from polystyrene.

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