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PRESS RELEASE

WITTMANN at the FIP 2024 in Lyon, France

WITTMANN with energy-efficient machinery and innovative technology at the FIP in Lyon

At the FIP Solution Plastique 2024 in Lyon to be held from June 4 to 7, WITTMANN BATTENFELD will present ultra-modern injection molding technology, automation and auxiliaries to interested trade visitors at booth No. K14.

The FIP Solution Plastique is the most important event for the plastics processing industry in France.

With its presentation of an **EcoPower 180/750+ B8X DC** machine, WITTMANN BATTENFELD France will demonstrate to its visitors the WITTMANN Group's expertise in the field of utilizing renewable energies. This machine, operating with a solar power storage unit, is also equipped with a WX142 robot in DC version. The robot receives its energy supply directly from the DC intermediate circuit of the EcoPower and also returns any surplus energy derived from axis deceleration to that circuit. On this machine, a crinkle box made of PP will be manufactured using a single-cavity mold supplied by the Austrian company Haidlmair. The power supply for the machine will come from ultra-modern ecological salt battery technology on sodium-nickel basis supplied by innovenergy. The battery has a total capacity of over 45 kWh, more than sufficient for continuous operation of the machine during an entire 8-hour trade fair day. To compensate the injection molding machine's short-term load peaks, additional electrochemical capacitors known as super-caps are used to complement the sodium-nickel storage units.

Multi-component technology expertise will be shown as well, by the production of a bottle opener made of PC and TPE on a SmartPower B8X Combimould, using a mold supplied by FKT Formenbau und Kunststofftechnik, Germany. The **SmartPower B8X 120/350H/130S** is presented as an insider solution with a W918 robot from WITTMANN and a conveyor belt integrated in the production cell. The robot takes the prepared metal parts from a magazine and places them into the mold, where they are insert-molded with polycarbonate. A rotary unit subsequently turns

the resulting base bodies into position and passes them on to the second station, where they are over-molded with TPE to provide them with a better grip. The finished parts are then deposited on the insider cell's conveyor belt.

The **SmartPower B8X to be presented** comes equipped with all-electric injection units, thus combining the advantages of the servo-hydraulic SmartPower's flexible, generous mold space with the all-electric EcoPower's excellent performance and high precision.

Moreover, WITTMANN BATTENFELD France will also demonstrate the WITTMANN Group's excellence in the area of micro injection molding by showing a **MicroPower 15/10** specially designed for this type of application live in action. With this machine a micro retaining ring for medical miniature tubes will be produced from PC with an 8-cavity mold supplied by Wittner, Austria. This product has a part weight of only 2 mg. The machine comes with a rotary unit, an integrated WITTMANN W8VS2 robot and a camera for complete parts inspection. Following removal and camera inspection, the parts are transferred to transport containers, separated according to individual cavities.

Energy measurement with IMAGOxt

Energy measurements using the IMAGOxt software will be carried out on all injection molding machines shown at the WITTMANN BATTENFELD booth. IMAGOxt, a program developed by WITTMANN Digital, will be used to display the energy consumptions of all injection molding machines exhibited at the fair, and the auxiliaries connected to them. The program also calculates the CO₂ consumption. All values calculated can be recorded in quality reports and thus remain available for long-term analyses. IMAGOxt is available as a web application, as an optional extension of the WITTMANN TEMI+ MES system, or as a stand-alone program.

Automation and auxiliaries

In addition to the robots and auxiliaries connected to the machines on display, a number of stand-alone solutions will also be shown at the FIP.

From its range of **robots**, WITTMANN BATTENFELD France will exhibit at the FIP a WX138T with AC servo axis and a Primus 128 model with the new R9 robot control unit. With its control cabinet flange-mounted to the horizontal axis and its internal power chain, the WX138T is particularly suited for compact production cells. It is driven by toothed belts to reduce its operating noise to a minimum. The Primus 128

for pick-&-place applications offers an extremely robust axle design thanks to its vertical Y axis supported by a steel profile. A lubrication system for the vertical axis included as standard ensures a continuous supply of lubricant and consequently quiet operation of the drive system with minimal wear.

A further highlight of the presentation will be a selection from the **range of granulators** manufactured locally at WITTMANN BATTENFELD France. The exhibits will include G-Max 9 and G-Max 23 grinders as well as the screenless granulator models S-Max 2 and the new S-Max Dual 6. The S-Max Dual 6 is the ideal granulator for central grinding of reject parts, but it can also be used for in-line recycling of sprue from injection molding machines. For use beside the press, the footprint of the S-Max Dual 6 has been reduced by about 25% compared to its predecessor model.

From the segment of **temperature control technology**, one temperature controller from the Tempro basic series will be presented at the FIP, plus a single-circuit and a dual-circuit appliance from the Tempro plus D series. The outstanding features of auxiliaries from the Tempro plus D series are their comfortable touch control units and optional extras such as utilization-controlled pump regulation with EcoDrive. In addition, WITTMANN BATTENFELD France will show a selection from the WITTMANN portfolio of flow controllers. A **WFC 120 flow regulator** will also be on display. The WFC is an appliance to control both flow quantity and temperature. It comes with a maintenance-free flow measurement unit.

Furthermore, WITTMANN BATTENFELD France will exhibit a selection from the WITTMANN Group's range of **materials handling technology**. In addition to central conveyors and stand-alone conveyors, such as the Feedmax S3 net, the exhibits will also include the new Feedmax Clean with dedusting function, which has been specially developed in response to the more and more stringent demands of the circular economy and the resulting increase in plastic granulates containing dust. The program will be rounded off with an XMB filter station and a Codemax RFID-controlled coupling station, which in combination with the M8 network control system ensures correct material feeding.

The range of **dryers** on display at the FIP will include a Drymax primus und a Drymax plus dry air dryer, as well as a Card primus compressed air dryer. The dry air dryers from the Drymax series are each equipped with two desiccant cartridges and therefore deliver a continuous flow of process air with consistent dry air quality for perfect drying of plastic granulate. The Drymax plus offers high operating comfort with a generously dimensioned touch display panel. Card compressed air dryers are small and effective and ideally suited for simple drying applications directly next to the machine's feed zone.

Finally, WITTMANN BATTENFELD France will provide tangible evidence of the WITTMANN Group's expertise in **dosing technology** by showing a volumetric Dosimax MC Balance blender and a Gravimax primus 14 blender with real-time weighing.



Fig. 1: EcoPower 180/750+ B8X DC



Fig. 2: Solar power storage unit from innovenergy



Fig. 3: MicroPower 15/10



Fig. 4: Primus 128 with R9 control unit



Fig. 5: Beside-the-press granulator G-Max 23



Fig. 6: Feedmax Clean conveyor with dedusting function

The WITTMANN Group

The WITTMANN Group is a globally leading manufacturer of injection molding machines, robots and auxiliary equipment for processing a great variety of plasticizable materials – both plastic and non-plastic. The group of companies has its headquarters in Vienna, Austria and consists of two main divisions: WITTMANN BATTENFELD and WITTMANN. Following the principles of environmental protection, conservation of resources and circular economy, the WITTMANN Group engages in state-of-the-art process technology for maximum energy efficiency in injection molding, and in processing standard materials and materials with a high content of recyclates and renewable raw materials. The products of the WITTMANN Group are designed for horizontal and vertical integration into a Smart Factory and can be interlinked to form an intelligent production cell.

The companies of the group jointly operate ten production plants in six countries, and the additional sales companies at their 37 different locations are present in all major industrial markets around the world.

WITTMANN BATTENFELD pursues the continued strengthening of its market position as a manufacturer of injection molding machines and supplier of comprehensive modern machine technology in modular design. The product range of WITTMANN includes robots and automation systems, material handling systems, dryers, gravimetric and volumetric blenders, granulators, temperature controllers and chillers. The combination of the individual areas under the umbrella of the WITTMANN Group enables perfect integration – to the advantage of injection molding processors with an increasing demand for seamless interlocking of processing machines, automation and auxiliaries.

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