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PRESS RELEASE

WITTMANN BATTENFELD technical labs in Germany

WITTMANN BATTENFELD Germany strengthens its application technology centers in Nuremberg and Meinerzhagen

The WITTMANN BATTENFELD technical labs in Meinerzhagen and Nuremberg have been extended with an even stronger focus on application technology than before, and are now available to existing and prospective customers for demonstrations and application technology tests. The machine applications are presented with integrated standardized automation solutions.

Focus on high-speed applications

On the *EcoPower Xpress 300* in Meinerzhagen, a thin-walled application is demonstrated. With a cycle time below 4 seconds, a margarine tub is manufactured in a 4-cavity mold, demolded and stacked. The production cell consists of the all-electric high-speed machine *EcoPower Xpress* and an integrated SONIC robot 131 optimized for this cycle. With its optimized gripper, the robot achieves a removal time below one second. With its unique electric drive concept and highly dynamic movements, the machine stands out by its extreme quietness and energy efficiency. This means conservation of resources as well as protection of the mold and the components of the production cell.

Ingrinder cell – conservation of resources with intelligent HiQ Flow[®] assistance system

The compact Ingrinder cell located in the Nuremberg technical lab shows a sustainable in-cycle recycling application, which has been realized jointly with the partners Schick Tanz GmbH and Kunststoffschmiede Dresden (Plastic Forge Dresden). As an integral part of the innovative cell, the HiQ Flow[®] assistance tool ensures consistent finished part weights and thus improves process stability. The cell consists of a *SmartPower 60/210*, a WITTMANN WP50 sprue picker, a G-Max 9 granulator and a FEEDMAX S3 vacuum conveyor.

WITTMANN 4.0 – integrated process monitoring “Everything at a glance”

WITTMANN 4.0 supports fast exchange and extension of appliances through “Plug and Produce”. The alarm analysis of all auxiliary appliances is shown in the machine’s control system. In this way, users can view the entire production cell at a glance. This technology is demonstrated in Meinerzhagen on a *SmartPower* 1230/525 with a W918 robot and integrated auxiliaries.

CELLMOULD® – physical foaming – lightweight expertise from WITTMANN BATTENFELD

The CELLMOULD® technology from WITTMANN BATTENFELD serves the production of plastic lightweight elements with high dimensional stability and good mechanical properties. In addition to material savings and consequently lighter components, CELLMOULD® enables a reduction in clamping force and cycle time. The CELLMOULD® technology is shown in the technical lab in Meinerzhagen on a *SmartPower* 240/1330.

AIRMOULD® – gas injection technology – proven and reliable

AIRMOULD® is a proven and reliable process to produce controlled cavities inside injection-molded articles. Thus AIRMOULD® technology contributes to obtaining lighter parts and enables shorter cycle times and lower energy consumption as well. In Meinerzhagen, coat-hangers are manufactured on a *SmartPower* 240/1330 with AIRMOULD® technology for demonstration purposes.

Easy cells

The EASY production cell can be viewed in Nuremberg. Depending on the application, the best-practice proven PRIMUS 14 & 16 robots are used to deposit the parts on a conveyor belt.

Utilizing the smaller footprint of modern injection molding machines, the open areas between existing injection molding machines remain in place. The cell is equipped with an access gate for easy troubleshooting.



Fig. 1: EcoPower Xpress 300/1100+



Fig. 2: EcoPower Xpress 300/1100+ – demolding of margarine tub



Fig. 3: Ingrinder with integrated G-Max 9 granulator

The WITTMANN Group

The WITTMANN Group is a worldwide leader in the production of injection molding machines, robots and auxiliaries for the plastics processing industry, headquartered in Vienna/Austria and consisting of two main divisions: WITTMANN BATTENFELD and WITTMANN. They jointly operate the companies of the group with eight production plants in five countries, and its additional sales and service companies are active with 34 facilities on all important plastics markets around the world.

WITTMANN BATTENFELD pursues the further expansion of its market position as an injection molding machine manufacturer and specialist for state-of-the-art process technologies. As a supplier of comprehensive, modern machine technology in modular design, the company meets both present and future market demands for plastics injection molding equipment.

The WITTMANN product portfolio includes robots and automation systems, material handling systems, dryers, gravimetric and volumetric blenders, granulators,

temperature controllers and chillers. With this diversified range of auxiliaries, WITTMANN offers plastics processors solutions to cover all production requirements, ranging from independent production cells to integrated plant-wide systems.

The syndication of the various segments under the umbrella of the WITTMANN Group has led to complete connectivity between the various product lines, for the benefit of plastics processors with an increasing demand for seamless integration of processing machinery with automation and auxiliaries.

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