



NEWS RELEASE

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WITTMANN peripheral equipment at the FAKUMA: **Welcome to the world of innovation!**



The FAKUMA in Friedrichshafen, probably the most important regional plastics fair in Europe, will open its doors again from 18 to 22 October 2011. WITTMANN is making use of this opportunity to invite trade visitors to enter its “world of innovation” in hall B1, booth 1204. In addition to the latest injection molding machine models, the novelties from the extensive peripheral product portfolio will be presented at the joint booth of WITTMANN and WITTMANN BATTENFELD. WITTMANN will have a number of exhibits from all segments on display: robots and automation, tempering and cooling, drying, material feeding, dosing and granulating. At this year’s FAKUMA, WITTMANN’s main focus will be on energy-efficiency and increase in productivity.

The following new products from the WITTMANN range of peripheral equipment will be shown:

1. the W818 robot model with R8.2 control system and servo-driven rotational axes
2. GRAVIMAX 14V with real-time dosing and Gravinet
3. R8.2 robot control system with *QuickEdit* and *SmartStart* functions
4. FEEDMAX B206 loader with *EasyClean* facility
5. TEMPRO plus D140 with temperature control oscilloscope
6. DRYMAX Aton Primus F120-300-M dryer with the WITTMANN drying wheel

1. Innovative robot technology – W818 robot

Mechanically, the new W818 robot is based on the successful predecessor model W711, but the design of this latest version features a maximum handling load of 6 kg and a possible maximum vertical stroke of 1,200 mm. The appliance is equipped with three powerful servo motors and absolute encoders for all linear axes as standard.



The new W818 servo robot from WITTMANN



Example of a servo-driven rotational B/C axis

Optional servo-driven rotational axes allow for a great variety of new functions, which were previously considered more or less the domain of jointed-arm robots. The servo B axis is capable of steplessly rotating the gripper and the C swivel axis from 0° to 270°, while the servo C axis rotates the gripper from 0° to 180°. All intermediate positions of each rotational axis can be programmed with an accuracy of 0.01°.

These rotational axes – combined with the *TruePath* path planning module of the WITTMANN R8.2 control system – enable movements with coordinate accuracy in any conceivable direction within three-dimensional space, including unlimited scope for parallel movements of linear and rotational axes.

At the FAKUMA, WITTMANN is presenting the new W818 robot with a combination of B/C servo axes for the first time. When using B/C servo axes for the gripper and the part, the W818 robot can handle a maximum load of 4 kg, while the W821 and W831 models have a maximum load capacity of 8 kg.

2. Innovative gravimetrics – GRAVIMAX 14V

The completely revised GRAVIMAX 14V blender is a further development of the successful predecessor model GMX 14R. The GRAVIMAX now presents itself in a completely new design, with the RTLS (Real Time Live Scale) online metering system of the predecessor model still incorporated.



GRAVIMAX 14V blender

But this model features highly accurate, wear-resistant stainless-steel valves with an extremely intelligent mechanism, so that both virgin materials and granulates prone to bridging with only limited pourability can be metered continuously and consistently through the same valve.

The GRAVIMAX 14V reaches a material throughput of up to 100 kg/h and is equipped, as standard, with two weighing cells for even higher metering accuracy and a ball mixer to ensure homogeneous blending of each metered batch.

3. Innovative R8.2 control system for robots

The new WITTMANN R8.2 robot control system offers an abundance of performance features, together with easy access to the various functions – even for operators without special training. Especially the real time functions, such as *SoftTorque*, *EcoMode*, *TruePath* and *PartTrack*, grant users easy access to otherwise highly complex functions, which increase productivity and simultaneously open up new ways of realizing execution sequences.



WITTMANN R8.2 robot control system

The predecessor version R8 already had all of these functions. Newly added functions in the R8.2 control system are *SmartStart* and the so-called *QuickEdit* mode. *SmartStart* enables a “blind start” of the robot, which does not require any special knowledge; the robot is simply activated with observance of all relevant safety precautions and operating conditions of the machine. *QuickEdit* enables quick individual adjustment of the structure and viewing of a teach program by the user.

The R8.2 control system is available for all robot sizes, starting from the small model W801 with 3 kg handling load, right up to the largest model W873, which is able to handle 125 kg. All high-speed horizontal robots from the W827, W837 and W847 series, and the appliances from the ultra-high-speed series, can also be supplied with the new control system.

4. Innovative conveyance and material handling – FEEDMAX B

The new FEEDMAX B material separators for central conveying stand out by a refreshingly unconventional outward appearance on the one hand, and are on the other hand particularly easy to handle and ideally suited for all fields of application.



*Examples from the WITTMANN range of loaders
(2nd from the right: FEEDMAX B105, the “new addition” for low throughput rates)*

The extremely wide portfolio of WITTMANN loaders covers all delivery volumes from 0.5 to 80 l with its series of appliances ranging from FEEDMAX B105 to FEEDMAX A 480, and can thus be used for all applications, whether it be just-in-time delivery or extrusion.

All FEEDMAX B material separators consist entirely of stainless steel wherever they come into contact with the material; they are equipped with pneumatically actuated vacuum valves, which are well-known for their reliability, and a slanted material cylinder. Thanks to its special design, the cylinder provides easier access for thorough cleaning, which is an essential feature for efficient use of the appliance in practice, where frequent material changes are the order of the day.

5. Innovative TEMPRO plus D temperature control

The new TEMPRO plus D series of temperature controllers leaves nothing to be desired even for the most exacting plastics processors. TEMPRO temperature controllers offer the highest standard in temperature stability together with optimized process management, and also provide clear and complete visualization of the entire process, thus enabling unrestricted process control.



Single- and dual-circuit versions of the new TEMPRO plus D temperature controller with touch screen operation.



The touch screen display shows the operating conditions of the appliance. A great variety of functions can be actuated from here.

With the introduction of the new TEMPRO plus D series of appliances, a generously dimensioned 5.7" LCD color screen provides the visualization. Various buttons on the display can be configured with unlimited freedom in order to retrieve the data required exactly as desired in each individual case.

TEMPRO temperature controllers cover a wide application window – ranging from open systems with a maximum process temperature of 90°C to magnet-coupled, pressurized systems with system temperatures of up to 180°C. All models are available in both single-circuit and dual-circuit versions.

The TEMPRO plus D series utilizes the advantages of water as a heat carrier medium. These include not only shorter heating-up periods and more accurate regulation, but also higher flow rates and more even temperature distribution inside the cavity.

For even more effective process control, the temperature profile can now be recorded and visualized with the help of an innovative oscilloscope function.

6. Innovative drying with DRYMAX Aton Primus

Another newcomer is the completely new DRYMAX Aton drying wheel dryer. WITTMANN presented this wheel dryer for the first time at K 2010. Meanwhile, DRYMAX Aton has already been proven in practice many times and been able to play out its numerous advantages.

What makes the decision in favor of DRYMAX Aton so attractive is its combination of a constant dew point with high energy efficiency and extremely low maintenance costs. These benefits have become possible by using an innovative drying wheel, consisting of numerous chambers which are loosely filled with ball desiccants. This filling concept favors high energy utilization and allows for low-cost maintenance of the wheel – both characteristics which cannot be realized with a conventional honeycomb wheel.



DRYMAX Aton wheel dryer

At FAKUMA 2011, WITTMANN is now presenting for the first time the new model DRYMAX Aton Primus with a dry air capacity of 120 m³/h, equipped with a 300 l drying silo as standard. All components which come into contact with materials are made of stainless steel.

The appliance offers a choice of two different operation modes. In the wheel mode, DRYMAX Aton Primus operates continuously as a wheel dryer, in the so-called *EcoMode* (which is particularly energy-efficient) according to the principle of a cartridge dryer with a controlled dew point. Its dew point reaches values between -40 °C and -65 °C under virtually all conceivable climatic conditions.

WITTMANN worldwide is one of the leading manufacturers of robots and peripheral equipment for the plastics industry. The WITTMANN group with Headquarters in Vienna/Austria is a worldwide operating company with 7 production facilities and 20 branch offices in all major plastics markets in the world. WITTMANN's product range includes robots and automation systems, automatic material handling with dryers and plastic recycling, temperature controllers and chillers for machine tools and volumetric and gravimetric blenders.

With this comprehensive range of peripheral equipment, WITTMANN can provide processors of plastics with total solutions which cover all their requirements, ranging from autonomous work cells with single zone temperature controllers, screenless granulators, sprue pickers, integrated vacuum loading systems and integrated cross-linked control systems with integrated material loading and dryers to automated robotic systems for flexible finishing of semi-finished injection molded parts.

On April 1, 2008 WITTMANN has taken over the BATTENFELD Kunststoffmaschinen GmbH at Kottlingbrunn (Lower Austria). The market for auxiliary equipment on one hand and for injection molding machines by BATTENFELD on the other will continue to grow independently. However, the syndication will of course lead to the completion of both product lines, providing the advantage plastics processors have been looking for in terms of a seamless combination of processing machines, automation and auxiliary equipment – all occurring at a progressive rate.

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