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NEWS RELEASE

WITTMANN Group at Plastindia 2012

WITTMANN BATTENFELD India celebrates its 5-year anniversary at Plastindia, New Delhi, February 1–6

WITTMANN BATTENFELD India Pvt. Ltd. will celebrate its 5-year anniversary as an independent subsidiary of the WITTMANN Group at Plastindia 2012, in Hall 12, Booth 7C. Plastindia takes place from February 1 to 6 in New Delhi – and will provide an excellent platform for the introduction of various new developments from the entire WITTMANN and WITTMANN BATTENFELD product range.

WITTMANN BATTENFELD India is the market leader for automation systems and will introduce many of the latest new WITTMANN robots and automation systems as well as feature the extensive automation know-how of the Indian subsidiary. At the Plastindia 2012, the technologically most advanced products will be presented to the Indian customers.

EcoPower 110 injection molding machine

As an example, a complete work cell for the productions of bottle openers will be on display that was developed by the Chennai based WITTMANN branch. The work cell consists of an *EcoPower* 110/350; a W818 servo robot and the automation solution for the insertion of metallic parts.

EcoPower 110 injection molding machine.

Working beside the *EcoPower* machine, the integrated automation work cell consists of a W818 robot for inserting the metallic parts into the mold and then picking the finished bottle opener out of it before placing the part on the conveyor belt. A material dryer is also integrated in this machine, as well as a mold temperature controller. The overall cycle time is 30 sec.

The machine is also equipped with a UNILOG B6 control unit, which offers a uniform control and operation concept for easy handling of the injection molding machines, including all integrated peripheral equipment.

As part of this exhibit the WITTMANN BATTENFELD WebService 24/7 is also featured. WebService 24/7 stands for the company's online service, which is available around the clock, seven days a week.

This unprecedented level of customer service is available for machines that have been equipped with the UNILOG B6 control system, which based on Windows XP® operating system.

The WITTMANN BATTENFELD WebService offers customers the opportunity to contact a qualified service engineer by phone at any time. Via the Internet, and with the customer's approval, WITTMANN BATTENFELD engineers can then log directly into the machine or to the integrated WITTMANN robot.

The *EcoPower* showing at Plastindia 2012 features a compact injection unit, an extremely accurate clamping unit, and a highly efficient direct drive. The braking energy of the drives, normally returned to the power supply network by an elaborate process, is completely utilized by the *EcoPower* within the machine to provide the necessary voltage for the control system and for barrel heating. This makes these machines extremely energy-efficient. Another advantage of the *EcoPower* is its user-friendly design. In developing this machine series, special emphasis was placed on the footprint and compact integration. The WITTMANN temperature control devices, for example, can be integrated directly in the machine frame, which means a considerable reduction of space requirements and occupancy costs.

W818 – unbounded versatility

Servo robot model W818.

The new WITTMANN standard robot is designated the W818 series, and is based on the proven concept of the W811 robots. The W818 model with an enhanced payload of 6 kg is perfectly suited for the mounting on molding machines up to 300 t of clamping force. With a sales volume of over 1,000 pieces per year, the W818 robots are fast becoming one of the most popular robot models of all time.

In parallel to the increase of the payload up to 6 kg (15.4 lbs) the stiffness of the kick-stroke and vertical stroke has been further improved. All robot axes are now equipped with absolute encoders, avoiding the need for initialization of the unit after the start-up.

The new W818 series includes the W818S model (with sub-arm for the picking of sprues), the W818T (with vertical telescopic axis) and the W818TS (with vertical telescopic axis and telescopic sub-arm). The vertical arm is available in lengths of 800 mm, 1,000 mm and 1,200 mm, and the maximum reach of the kick-stroke is 800 mm. The horizontal traversing axis is offered in lengths of 1,250 mm, 1,500 mm, 2,000 mm and 2,500 mm.

The applications for these WITTMANN W818 models range from simple pick & place sequences up to the implementation of complicated work cells with extensive downstream equipment. In some cases, the W818 can also be used as a secondary robot for box filling. The high adaptive flexibility for the WITTMANN W818 is achieved through a variety of rotational axes and options: additional in-/output cards, additional vacuum and gripper circuits, as well as servo driven auxiliary axes (e.g. B/C-Servo). The model W818 robot is equipped as standard with the high- performance and flexible R8.2 touch screen control.

W823 robot with integrated vision system

WITTMANN servo robot model W823.

WITTMANN BATTENFELD India is also using the Plastindia show to present a W823 servo robot with an integrated vision system. This is used for the automated detection of defect parts and their separation from the good parts.

Automation of injection machines and blow-molding machines

At ASB's Plastindia booth, WITTMANN BATTENFELD India and ASB are showing in cooperation a W832 WITTMANN robot that is handling PET bottles between an ASB single stage PET machine and the packing machine, thus reducing the manual

labour involved. The automation system handles bottles coming from either 1 or 2 rows within a cycle time of 10 seconds.

Innovative drying with DRYMAX Aton Primus

Another newcomer to Plastindia is the completely new DRYMAX Aton drying wheel dryer. WITTMANN presented this wheel dryer for the first time at K 2010. Since then the DRYMAX Aton has been proven in practice many times; demonstrating its many advantages.

The DRYMAX Aton combines 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 drying wheel.

DRYMAX Aton wheel dryer.

A choice of two different operation modes is offered: In the wheel mode, DRYMAX Aton Primus operates continuously as a wheel dryer. In the so-called *EcoMode* (which is particularly energy-efficient) it operates according to the principles 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.

At Plastindia 2012, WITTMANN will introduce the very newest DRYMAX Aton dryer model F120 with 120 m³/h of dry air capacity. As a beside-the-press dryer the DRYMAX Aton can be realized in 1-, 2- or 3-drying hopper configurations. The new wheel design guarantees dew points of -40 °C to -65 °C regardless of ambient conditions – including monsoon times.

DRYMAX E with frequency inverter

The focus of high performance paired with energy saving measurements is not only carried by the DRYMAX Aton dryer, but equally on DRYMAX central dryers with frequency inverters. As an example for the entire series, WITTMANN is presenting a DRYMAX E350-H-180 dry air dryer with built-in frequency inverter. This dryer can be used either for central systems including several drying hoppers, or as a single dryer for demanding applications with varying material throughput, e.g. for the production of PET preforms.

The frequency inverter enables the unlimited and perfect adjustment of the dry air capacity to the actual material requirement. When no material is needed due to a stoppage of the machine, the frequency of the blower is reduced to a minimum. Thereby, not only the optimum drying efficiency can be guaranteed, but also the highest energy efficiency. This feature is particularly important when running larger drying systems.

WITTMANN blending, granulating and temperature control

The WITTMANN range of innovative peripheral equipment.

The WITTMANN Group will also use Plastindia 2012 to present innovations from all across its product portfolio. Items will include the one-dryer model DRYMAX Primus E30-70-M, a screenless granulator type MINOR 2, the Gravimetric blender GRAVIMAX B14 with RTLS dispensing technology, miscellaneous single and central loaders as well as the temperature controllers TEMPRO primus C90, TEMPRO basic C90 and TEMPRO basic C140.

The WITTMANN Group

The WITTMANN Group based in Vienna/Austria is one of the world's leading manufacturers of robots and peripheral equipment for the plastics industry. The WITTMANN product portfolio includes robots and automation equipment, automatic material loaders and material dryers as well as equipment for plastics recycling, mold tempering and cooling, and volumetric and gravimetric metering appliances.

WITTMANN BATTENFELD, a company of the WITTMANN Group with its headquarters and production facility in Kottingbrunn (Lower Austria), is a leading manufacturer of injection molding machinery and equipment for the plastics industry. The company is present in about 60 countries with its own sales and service companies as well as representative offices, thus offering optimal support to its customers in all matters concerning injection molding technology.

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