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PRESS RELEASE

Energy-saving, clean, compact

World premiere for all-electric *EcoPower* series

With its new EcoPower machine series, Wittmann Battenfeld proves its extensive know-how of more than 20 years in engineering all-electric injection molding machines. Now in its fourth generation, it is setting new benchmarks in user-friendliness and accuracy. It also offers an enormous energy-saving potential. Additional important features: cleanliness, compact design and modularity. The new energy-saving champion will celebrate its world premiere at this year's Fakuma.

It is now only a few weeks away: from October 13 to 17, Wittmann Battenfeld will be presenting its new *EcoPower* all-electric machine series for the first time. The new generation is the result of many years of experience combined with innovations designed for customer benefit.

The all-electric *EcoPower* series is available with clamping forces ranging from 55 - 300 tons, starting with the model *EcoPower* 110.

Georg Tinschert, Managing Director of Wittmann Battenfeld, is pleased with the new series: "The new *EcoPower* comes with a modular system for optimal adaptation of the machine to any conceivable customer application. Our customers get what they need, and they have a choice - ranging from standard high-precision injection molding to high-speed, clean room applications."

Experience meets innovation.

All-electric injection molding machine engineering has a long tradition at Wittmann Battenfeld. The first all-electric series was launched in the 1960s. Since the introduction of the first servo-electric machines at the end of the 1980s, Battenfeld, as the European pioneer, has worked continuously on their further development. One significant proof of quality in machines is their durability. Many machines of the first generation are still running today at the facilities of well-known customers.

The promise: energy-saving, clean and compact

The all-electric *EcoPower* combines efficiency with precision. It scores with a compact injection unit and the clean design of its clamping unit, featuring a highly efficient direct drive. With *EcoPower*, the braking energy of the drives, normally wasted or recovered by an elaborate process, is utilized inside the machine. The new series also offers an extremely low noise level of less than 68 db.

The machine's outward appearance has not been neglected either: its new design meets the most stringent demands. Particular attention has been paid to user- and service-friendly machine design. The machine has a small footprint and is designed so that it is open both at the top and on the injection side. This allows mounting of robots without any alterations to the machine, and with access to the nozzle and the material feeding system remaining unobstructed.

High-performance injection unit

The injection unit is laid out for high injection speeds of up to 400 mm/s even under maximum injection pressure. The drive and the circulating ball spindle are at the heart of force transmission. The direct drive via the spindle minimizes force transmission loss and ensures accurate control and repeatability of the metering and injection process. Thanks to the newly developed, encapsulated drive system, it is extremely compact and easily accessible. The barrel can be exchanged quickly from above; it is also compatible with the traditional HM and TM series.

Almost all of the motors used are extremely robust standard servo models perfectly suited to modular applications.

Fast, clean clamping unit

The efficient, high-precision toggle drive stands out by its dynamic strength and high positioning accuracy and is extremely energy-efficient as well. The toggle lever bolts are sealed on the outside, thus ensuring a clean clamping unit. The self-locking cylinder system further enhances the machine's energy-efficiency.

Modularity: one machine – many options

To achieve maximum customer benefit, the *EcoPower* series has a modular design and is preconfigured. A great variety of machine concepts is available, depending on the application. The machine system consists of a basic platform which can be supplemented with comprehensive extension packages, depending on the customer's requirements. Thanks to its modularity, the machine can be equipped for standard high-precision injection molding and clean room technology as well as high-speed applications.

In the version equipped with a hydraulic ejector, nozzle stroke and optional core pull, the hydraulic aggregate with a speed-controlled servo motor is integrated into the machine frame. It ensures dynamic strokes of the driving axles, is energy-efficient and dispenses with additional space requirements.

Saving space and cutting costs with an integrated solution

The *EcoPower* has been designed with particular attention to a compact footprint. Thanks to a special integrated solution concept, temperature controllers and material dryers can be built directly into the machine frame, which substantially reduces space requirements as well as energy costs.

Set-up, visualization and storage of settings of the entire peripheral equipment can also be integrated directly into the machine's control system Unilog B6.

***EcoPower* – on show for the first time at Fakuma 2009**

The first model will be presented to international trade visitors at Fakuma 2009. An ***EcoPower 110/350*** will be shown manufacturing industrial parts. These will be removed and deposited on a conveyor belt by a Wittmann high-speed robot from the W821 UHS series fully integrated in the machine's Unilog B6 control system.

Another exhibit will be on display at the booth of Wittmann Battenfeld's cooperation partner Schulman (hall B1, booth 1112), where an ***EcoPower 110/130*** will demonstrate the production of PBT plugs during the fair.



Fig. 1: The new *EcoPower* energy saving series from Wittmann Battenfeld

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