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PRESS RELEASE

WITTMANN BATTENFELD at the K 2025 in Düsseldorf

The new one-piece MacroPower

At the K2025 from October 8 to 15, WITTMANN presented to its visitors at its booth 22 in hall 15 its new MacroPower model under the motto of “Smart Choices – Smart Savings”, which enables users, among other things, to save both valuable time and space in production.

The new **MacroPower** was the highlight of WITTMANN BATTENFELD's presentation at the K 2025. In the 400 to 600 t clamping force range, the MacroPower will be available with a one-piece machine frame from the K2025 onwards. This model offers several advantages for the machine's transport as well as its installation and start-up on the customer's premises, which can be speeded up considerably with this new design. In addition to saving time, the one-piece machine frame also contributes to reducing the error risk in setting up the machine according to the “Plug & Play” principle, since the machine goes to the customer in one piece following full examination ex works, without having to be dismantled for transport after commissioning and then re-assembled on the customer's premises. The new machine design also gives the MacroPower the additional advantage of a more compact footprint.

The injection unit of the one-piece MacroPower is pivotable and freely accessible from both the operator side and the opposite side. This significantly facilitates and accelerates screw changes.

The machine is equipped with the Unilog B8X control system with several control system components developed in-house. These enable a higher internal clock frequency and consequently shorter response times to sensor signals, resulting in higher reproducibility of the parts, with operating convenience and visualization remaining unchanged.

Moreover, the machine's drive and amplifier units are air-cooled, which reduces operating costs compared to liquid cooling systems. A globally unique, patented swivel locking system with only one cylinder enhances the machine's high service-

friendliness. This low-wear system ensures fast and safe locking. In addition, a high-resolution stroke measurement system for the closing movement and pressure cans combined with the proven guidance of the moving platen by linear guides enable high-precision mold protection, as well as Expert functions such as coining, venting and ClampAdjust.

The compact range of options available on both nozzle and clamping sides across all machine series offers customers also using machines of other series from the WITTMANN product range advantages due to the uniform operating concept and fast availability of retrofit packages and service components.

A further benefit of the new MacroPower is its innovative pump concept. Up to four hydraulic units are installed in the machine, which can be set specifically to fit the application, for example to boost the performance figures, or for parallel movements of the core pull, ejector and –another novelty – the hydraulic needle shutoff system inside the mold as well.

Of course, the new MacroPower is also equipped with the KERS – Kinetic Energy Recovery System – patented by WITTMANN BATTENFELD for injection molding machines, which transforms kinetic energy released by deceleration processes into electric energy, which is then used inside the machine, for example for barrel heating. This also makes the new MacroPower extremely energy-efficient.

At the K fair, a crate known as “HAIBOX” was produced on the new **MacroPower 500/3400** from PP supplied by Borealis, using a single-cavity mold from Haidlmair, Austria. The machine was equipped with a WITTMANN IML unit. The labels coming from Viappiani, Italy, were inserted on both long sides of the box. Following parts removal, a thermal photo of every shot was taken by a thermal imaging camera and then compared with the reference picture from the approval process. The pictures were checked by the TD14.0 software from SKZ, Germany, evaluating any deviations from normal temperature differences. If the temperature were outside the tolerance margin, a signal was sent to the robot to have the respective part sorted out. Next, the good parts were placed on a conveyor belt.



Fig. 1: MacroPower 500/3400 with a one-piece machine frame



Fig. 2: Pivotal injection aggregate on the new MacroPower

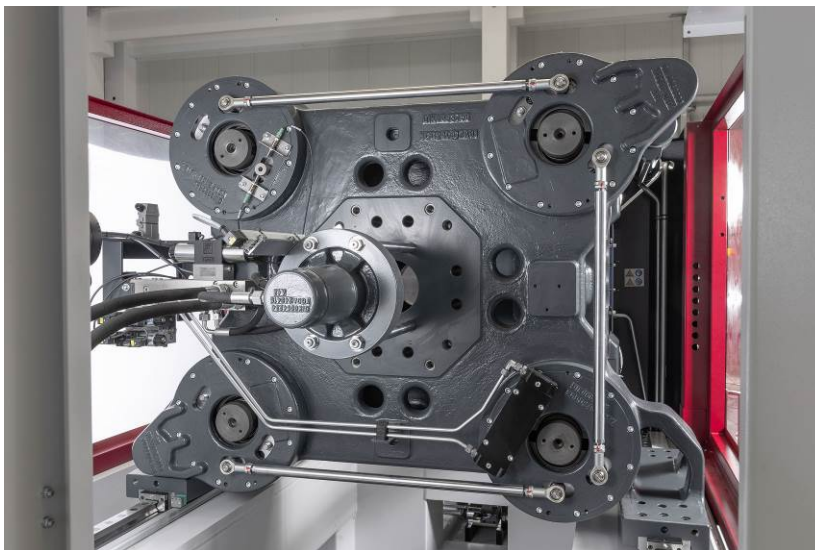


Fig. 3: Patented swivel locking system with only one cylinder

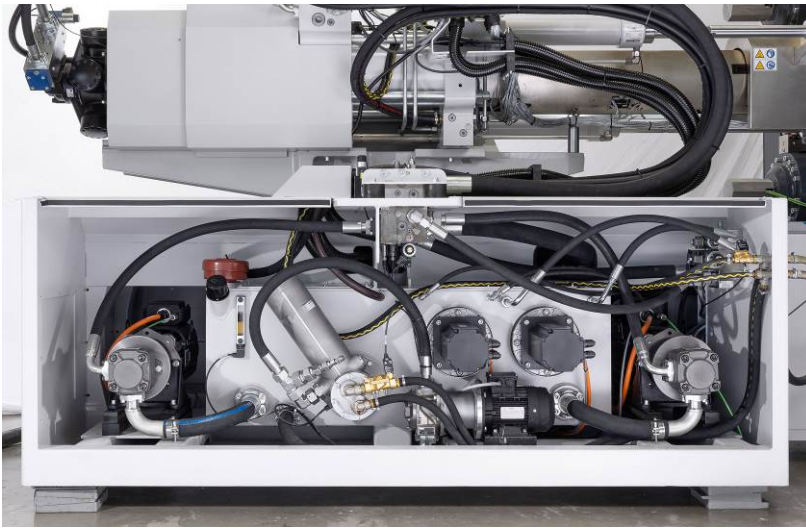


Fig. 4: Hydraulic pump system of the new MacroPower



Fig. 5: Clamping platen support



Fig. 6: HAIBOX (Picture: Haidlmair)

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 seven countries, and the additional sales companies at their 35 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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