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PRESS RELEASE

WITTMANN BATTENFELD at the Compamed in Düsseldorf

Microscale LSR processing

From November 13 to 16, 2023, WITTMANN BATTENFELD will demonstrate its expertise in the area of LSR processing at the Compamed in Düsseldorf, hall 8b, booth F03, by making a high-quality micro loudspeaker from thermoplastic and liquid silicone.

The membrane will be produced with a single-cavity mold supplied by Starlim Spritzguss, Austria, on a MicroPower 15/10H/10H Combimould specially designed for injection molding of micro parts. The machine is a multi-component model from the MicroPower series. The MicroPower to be exhibited at the Compamed comes equipped with a 2-step screw-and-plunger thermoplastic injection unit and a 2-step screw-and-plunger LSR aggregate, plus a rotary disk integrated in the machine. The latter enables subsequent rotation of the part towards the second injection unit and back. The machine is also laid out for clean room injection molding. Its rotary disk is completely encapsulated. All connections for heating, temperature sensors, water temperature control, pneumatic core pulls and relevant sensors, as well as the exhaust valve, are positioned next to the rotary disk. The closeness of the connections to the mold thus achieved enhances the machine's operating comfort.

It is often necessary to build costly multi-cavity molds already at the prototyping stage for the sole purpose of reaching the necessary minimum throughput of the machine. The choice of a single-cavity mold with this application serves to demonstrate the high precision of the mold in combination with the MicroPower machine, which is specially designed for the production of micro parts.

The LSR metering pump supplied by EMT Dosiertechnik, Germany, is a 1-liter cartridge system developed for extremely small metering volumes. Smooth, continuous emptying of the cartridges ensures highest precision together with consistent quality. Another advantage is the blending section reduced to a minimum, with the special benefit of rapid cleaning and minimal material loss with every material changeover.



Fig. 1: MicroPower 15/10H/10H Combimould with LSR dosing pump



Fig. 2: Membrane made of thermoplastic and liquid silicone for a high-quality micro loudspeaker, manufactured on a MicroPower 15/10H/10H Combimould

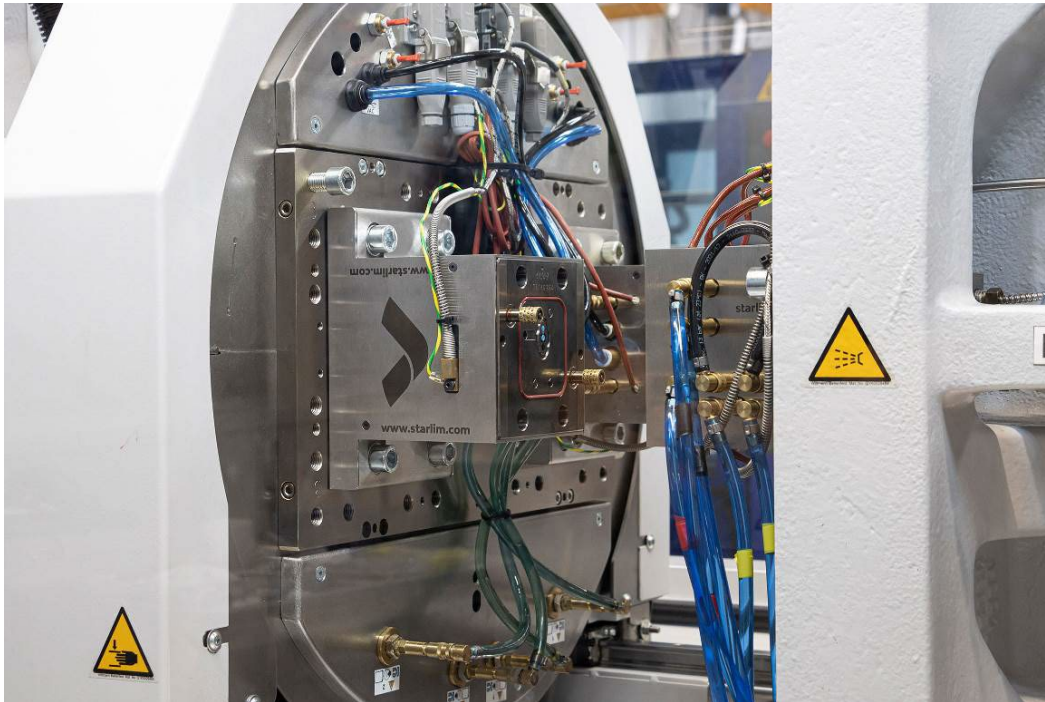


Fig. 3: MicroPower LIM – Rotary table and single cavity mold from Starlim Spitzguss GmbH

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 six countries, and the additional sales companies at their 36 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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